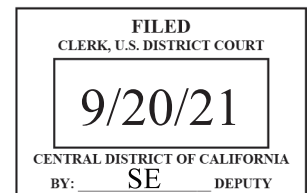


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Attorneys for Relators and Plaintiff-Relator

**IN THE UNITED STATES DISTRICT COURT
FOR THE CENTRAL DISTRICT OF CALIFORNIA**

[UNDER SEAL],
Plaintiffs,

v.

[UNDER SEAL],
Defendants.

CASE NO. CV 18-08311-ODW(AS)

**PART 3 OF 13
(EXHIBITS 29 – 37)**

FOURTH AMENDED COMPLAINT

**[FILED IN CAMERA AND UNDER SEAL
PURSUANT TO 31 U.S.C. § 3730(b)(2)]**

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Attorneys for Relators and Plaintiff-Relator

IN THE UNITED STATES DISTRICT COURT
FOR THE CENTRAL DISTRICT OF CALIFORNIA

UNITED STATES OF AMERICA *ex*
rel. **IONM LLC**, a Delaware corporation
and *ex rel.* **JUSTIN**
CHEONGSIATMOY, M.D.;
STATE OF CALIFORNIA *ex rel.*
IONM LLC, a Delaware corporation and
ex rel. **JUSTIN CHEONGSIATMOY,**

CASE NO. CV 18-08311-ODW(AS)

PART 3 OF 13
(EXHIBITS 29 – 37)

FOURTH AMENDED COMPLAINT

1 **M.D;** and **LOS ANGELES COUNTY** *ex*
2 *rel.* **IONM LLC**, a Delaware corporation;
3 and *ex rel.* **JUSTIN**
4 **CHEONGSIATMOY, M.D.**, and
5 **JUSTIN CHEONGSIATMOY, M.D.**, in
6 his individual capacity

7
8
9 Plaintiffs,

10
11 v.

12 **UNIVERSITY OF SOUTHERN**
13 **CALIFORNIA**, a California corporation;
14 and

15 **USC CARE MEDICAL GROUP, INC.**,
16 a California corporation,

17
18 Defendants.

19
20 **[FILED IN CAMERA AND UNDER SEAL**
21 **PURSUANT TO 31 U.S.C. § 3730(b)(2)]**
22
23
24
25
26
27
28

Exhibit 29

4h

Exhibit 30

INTRAOPERATIVE PATIENT INJURY

USC Keck MRN # [REDACTED]

Surgery Date: Monday, October 16, 2017

Monitoring Time: 9:20AM – 2:35PM (5 hours and 15 minutes)

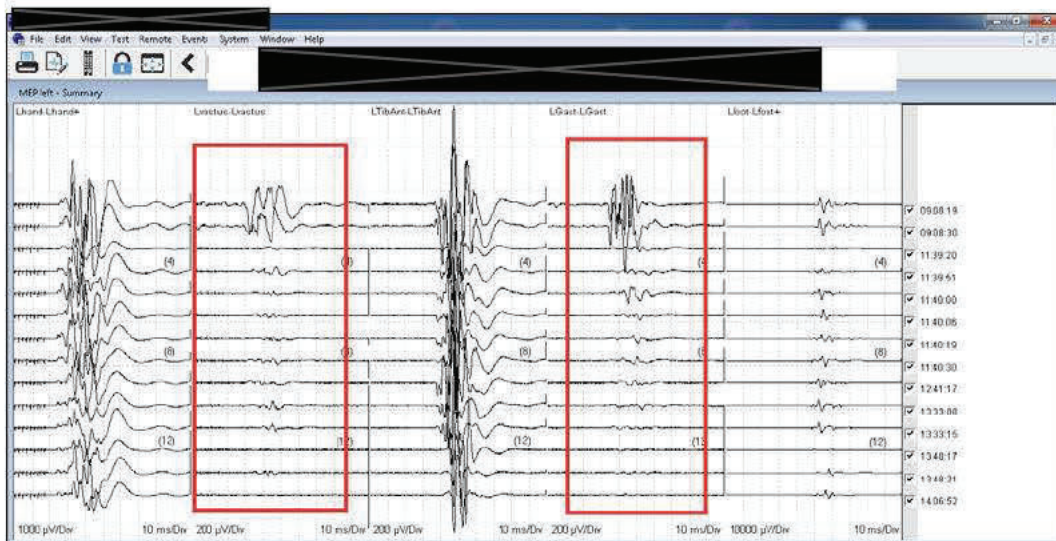
IONM FELLOW: Jonathan Chen

Events		
Time	Priority	Text
7:45:47 AM	Medium	Pt in the room
8:50:31 AM		Stored Impedance
8:56:28 AM		Stored Impedance
8:57:12 AM		Stored Impedance
8:58:46 AM	Medium	LEFT PSDAS NEEDLES OUT
9:07:52 AM	Medium	Soft bite block in before MEP testing
9:20:11 AM	Medium High	Begin Incision
9:21:00 AM	Medium	MEPs OBTAINED AND ADEQUATE FOR MONITORING ON LEFT SIDE. MEPs ADE
9:26:09 AM	Medium	Cautery
9:26:12 AM		EMG - Stored EMG 0mA
9:26:13 AM		EMG - Stored EMG 0mA
9:34:30 AM	Medium	HR 66 ABP 127/68 MAP 90 TEMP 35.6 TIVA
9:34:54 AM	Medium	Cautery
9:34:56 AM		EMG - Stored EMG 0mA
9:34:59 AM		EMG - Stored EMG 0mA
9:39:50 AM	Medium	Cautery
9:39:56 AM		EMG - Stored EMG 0/0mA
9:39:58 AM		EMG - Stored EMG 0/0mA
9:40:00 AM	Medium	SURGEON REQUESTED PARALYZATION FOR 30 MINUTES
9:41:14 AM	Medium	10mg ROC GIVEN
9:43:19 AM		Stored Impedance
9:48:49 AM	Medium	Cautery
9:48:52 AM		EMG - Stored EMG 0/0mA
9:48:54 AM		EMG - Stored EMG 0/0mA
9:53:08 AM	Medium	Cautery

Events		
Time	Priority	Text
9:48:52 AM		EMG - Stored EMG 0/0mA
9:48:54 AM		EMG - Stored EMG 0/0mA
9:53:08 AM	Medium	Cautery
9:53:11 AM		EMG - Stored EMG 0/0mA
9:53:14 AM		EMG - Stored EMG 0/0mA
10:07:53 AM	Medium	drilling
10:13:03 AM	Medium	Cautery
10:13:05 AM		EMG - Stored EMG 0/0mA
10:13:07 AM		EMG - Stored EMG 0/0mA
10:19:04 AM	Medium	Cautery
10:19:08 AM		EMG - Stored EMG 0/0mA
10:19:10 AM		EMG - Stored EMG 0/0mA
10:28:19 AM	Medium	SEPs STABILIZED, ALL EXTREMITES ADEQUATE FOR MONITORING
10:29:10 AM	Medium	NUVASIVE STIMMING SCREWS
10:30:29 AM	Medium	TDF 2/4 WITH FADE
10:30:44 AM	Medium	ANESTHESIA REVERSED NMB, TDF 4/4
10:31:19 AM	Medium	Cautery
10:31:21 AM		EMG - Stored EMG 0/0mA
10:31:23 AM		EMG - Stored EMG 0/0mA
10:31:58 AM	Medium	DRILLING/CAUTERY
10:32:33 AM		Stored Impedance
10:33:59 AM	Medium	NUVASIVE STIMMING SCREWS
10:40:18 AM	Medium	TAPPING
10:44:55 AM	Medium	NUVASIVE STIMMING SCREWS
10:45:43 AM	Medium	DRILLING

Time	Priority	Text
10:40:18 AM	Medium	TAPPING
10:44:55 AM	Medium	NUVASIVE STIMMING SCREWS
10:45:43 AM	Medium	DRILLING
10:46:55 AM	Medium	NUVASIVE STIMMING SCREWS
10:49:01 AM	Medium	HR 89 BP 67/37 MAP 44 TEMP 35.6
10:51:30 AM	Medium	PT GIVEN EPI
10:52:53 AM	Medium	BP STABILIZED
10:53:15 AM	Medium	ASP 155/65
10:54:14 AM	Medium	NUVASIVE STIMMING SCREWS, REQUESTED PAUSING SSEPs UNTIL ALL SCRI
10:58:20 AM	Medium	Cautery
10:58:23 AM	Medium	ENG - Stored ENG: 0/0mA
10:58:25 AM	Medium	ENG - Stored ENG: 0/0mA
11:00:11 AM	Medium	DRILLING
11:08:55 AM	Medium	placing screws
11:10:05 AM	Medium	PLACING SCREWS
11:26:03 AM	Medium	DRILLING
11:29:16 AM	Medium	DRILLING
11:41:00 AM	Medium	MEPs present, Pw 75 ON R SIDE
11:42:16 AM	Medium	O ARM IN
12:00:46 PM	Medium	O ARM OUT
12:15:56 PM	Medium	nuvasive begin testing screws; surgeon request pausing steps
12:41:45 PM	Medium	imp per surgeon; no changes
12:43:39 PM	Medium	decompression
12:47:52 PM	Medium	Stored Impedance
12:50:44 PM	Medium	left vastus eng firing, reported

Time	Priority	Text
11:41:00 AM	Medium	MEPs present, Pw 75 ON R SIDE
11:42:16 AM	Medium	O ARM IN
12:00:46 PM	Medium	O ARM OUT
12:15:56 PM	Medium	nuvasive begin testing screws; surgeon request pausing steps
12:41:45 PM	Medium	imp per surgeon; no changes
12:43:39 PM	Medium	decompression
12:47:52 PM	Medium	Stored Impedance
12:50:44 PM	Medium	left vastus eng firing, reported
13:10:03 PM	Medium	drilling
13:13:35 PM	Medium	eng clear
13:17:19 PM	Medium	hr 111 abo 95/58 map 75 temp 35.4
13:24:31 PM	Medium	CUTTING RODS
13:25:42 PM	Medium	RODS PLACED
13:33:31 PM	Medium	MEPs STABLES
13:38:30 PM	Medium	PLACING RODS
13:48:33 PM	Medium	MEPs per surgeon; no changes
13:58:42 PM	Medium	Irrigating
14:07:36 PM	Medium	MEPs performed; no changes
14:09:28 PM	Medium	hr 140 abo 95/58 map 57 temp 35.6
14:13:08 PM	High	Closing
14:29:49 PM	Medium	PT HAS WEAK PULSE
14:29:01 PM	Medium	ANESTHESIA ASKING TO GET PT DNTD BED
14:30:03 PM	Medium	SURGEONS STAPLING SKIN
14:32:24 PM	Medium	PT ON BED
14:35:00 PM	Medium	end monitoring



3

Neurology IP Progress Note

* Final Report *

Document Type: Neurology IP Progress Note
 *Date - Date of Service: October 16, 2017 14:49 PDT
 Document Status: Auth (Verified)
 Document Title: NEURO Surgical Neurophysiology USC
 Author: Goedemans, Audra on October 16, 2017 14:54 PDT
 Authenticated By: GONZALEZ MD, ANDRES on November 21, 2017 15:29 PST
 Encounter info: [REDACTED] KH-USC, Inpatient, 10/16/2017 - 10/26/2017

* Final Report *

NEURO Surgical Neurophysiology USC

Patient: [REDACTED] MRN: [REDACTED] FIN: [REDACTED]
 Age: 61 years Sex: [REDACTED] DOB: [REDACTED]
 Associated Diagnoses: None
 Author: Goedemans, Audra

General Information

Date of study: 10/16/2017.
 Referring Physician: ACOSTA MD, FRANK.

History of Present Illness

The patient presents with thoracolumbar kyphosis (revised by: CHEN FEL, JONATHAN H: 11/14/2017 9:50 PST) kyphosis-(previously documented by: Goedemans, Audra: 10/16/2017 14:54 PDT).

Procedure

Monitoring Modalities

Evoked Potentials: somatosensory evoked potentials, upper and lower limbs (95938), transcranial motor evoked potential, upper and lower limbs (95939).
 Electromyography: train of four (95937), free run EMG (95861).

Results Review

During the T4-pelvis posterior spinal fusion with instrumentation, the aforementioned modalities were continuously monitored and the surgeon was informed of the baseline(s) listed below.

Somatosensory evoked potentials: bilateral upper extremities adequate, bilateral lower extremities adequate.

Motor evoked potentials: bilateral upper extremities adequate, bilateral lower extremities adequate.

During the procedure, potentials remained stable and no adverse electrodiagnostic events were encountered during.

Free running EMG recording was provided. The OR physicians were promptly made aware of any spontaneous discharges suggesting irritation of any of the relevant nerves.

5.75 hours were spent monitoring.

The surgeons were kept informed of the monitoring status and any significant changes.

Impression and Plan

No evidence of intraoperative spinal cord impairment was seen.
 (revised by: CHEN FEL, JONATHAN H: 11/14/2017 9:50 PST)

Signature Line

Electronically Signed On 10/16/17 02:54 PM PDT

Audra Goedemans

Neurology IP Progress Note
* Final Report *



Electronically Signed On 11/21/17 03:29 PM PST

ANDRES GONZALEZ, MD

PARASTOU SHILIAN, DO

JONATHAN CHEN, Fellow

Modified by JONATHAN CHEN, Fellow On 11/14/17 09:50 AM PST



Page 2 of 2
(End of Report)

Task Edit View Patient Chart Links Notifications Navigation Help

Home Message Center Patient List Schedule Viewer Physician Handoff Discharge Dashboard KeckCare Assist Case Selection Lexicomp iMed Consent Cures Call Schedule AntibioGram/ASP

Tear Off Suspend Charges Exit Calculator Explorer Menu AdHoc Medication Administration PM Conversation Depart Communicate

Age: 62 years Sex: Male MyUSC Chart: No Not Interested [11/06/2017] Allergies: MRN: Fin#

Inpatient (Admit Dt: 10/15/2017 05:31:00 PDT Disch Dt: 10/26/2017 13:02:00 ... Attending: GMIOS | DRG: 9.6 days | 456 - SPL... Blood Trans Acceptable to Pt/Yes

Menu - All Ambulatory Views

Ambulatory Views

Inpatient Views

Provider View

Operative Summaries

Physician Handoff

SBAR

Demographics

Results Review

View/and O

Allergies + Add

Orders + Add

Medication List + Add

Reports/Documents + Add

Provider Documentation... + Add

Pending Studies

MAR Summary

eMAR

Form Browser

Histories

Neurology Pro... x Ambulatory W... x Ambulatory Su... x Discharge Sum... x Ambulatory Qu... x Anes. Acute Pa... x

Inpatient Discharge Meds as Rx All

Submitted Charges (19)

Selected Visit	Status	Ordered
CHARGE 95037 Neurosurg June 1st, 1mth/riv	Completed	11/21/17 15:52
CHARGE 95961 Func cort/subcor map/1st hr	Completed	11/21/17 15:52
CHARGE 95939 TCMPE, upper and lower limbs	Completed	11/21/17 15:52
CHARGE 95938 Short-lat SSEP, up/down limbs	Completed	11/21/17 15:52
CHARGE G0453 Cont IONM out OR, 1:1/15 min	Completed	11/21/17 15:52
CHARGE 99233 Sbgg IP care-High (35 min)	Completed	11/02/17 16:21
CHARGE 99233 Sbgg IP care-High (35 min)	Completed	10/26/17 13:23
CHARGE 99223 Init IP care-High (70 min)	Completed	10/24/17 15:42

Order Details: Thoracic myelopathy, # of Tests: 23, Date of Service 10/16/17

Order Comments:

Order Date/Time: 11/21/2017 15:52

Start Date/Time: 11/21/2017 15:52

Status: Completed

Ordered by: GONZALEZ MD, ANDRES

CHARGE 95037 Neurosurg June 1st, 1mth/riv

CHARGE 95961 Func cort/subcor map/1st hr

CHARGE 95939 TCMPE, upper and lower limbs

CHARGE 95938 Short-lat SSEP, up/down limbs

CHARGE G0453 Cont IONM out OR, 1:1/15 min

CHARGE 99233 Sbgg IP care-High (35 min)

CHARGE 99233 Sbgg IP care-High (35 min)

CHARGE 99223 Init IP care-High (70 min)

CHARGE 95863 Needle EMG, 3 extremity 26 Professional Component

CHARGE 95864 Needle EMG, 4 extremity 26 Professional Component

CHARGE 95867 NDI EMG, crania rrv musc, ul 26 Professional Component

CHARGE 95868 NDI EMG, crania rrv musc, bil 26 Professional Component

CHARGE 95870 NDI EMG limited, 1 musc 26 Professional Component

Task Edit View Patient Chart Links Notifications Navigation Help

Home Message Center Patient List Schedule Viewer Physician Handoff Discharge Dashboard NeckCare Assist Case Selection Lexicomp Med Consent Cures Call Schedule AntibioGram/ASP

Log Out Suspend Charges Exit Calculator Explorer Menu Ad Hoc Medication Administration PM Conversation Depart Communicate Approv Conts Orders Direct Address Book

Loc: USC SS 5115; A Age: 62 years Sex: Male
 Inpatient [Admit Dt: 10/16/2017 05:31:00 PDT Disch Dt: 10/26/2017 13:02:00 ... Attending: MYSJC Chart: No Not Interested [11/06/2...]
 CMLOS | DRG: 9.6 day(s) | 456 - SPL... Blood Trans Acceptable to P1? Yes

Menu - All Ambulatory Views Inpatient Views Provider View Operative Summaries Physician Handoff SBAR Demographics Results Review View/Find O Allergies Add Orders Add Medication List Add Reports/Documents Add Provider Documentati... Add Pending Studies MAR Summary eMAR Form Browser Histories

Submitted Charges (14)

Charge	Status	Ordered
CHARGE 95937 Neuromusc Junc	Completed	11/21/17 15:52
CHARGE 95961 Func cort/subcor map/1st hr	Completed	11/21/17 15:52
CHARGE 95939 TcMEP, upper and lower limbs	Completed	11/21/17 15:52
CHARGE 95938 Short-lat SSEP, up&low limbs	Completed	11/21/17 15:52
CHARGE G0453 Cont IONM out OR, 1:1/15 min	Completed	11/21/17 15:52
CHARGE 99233 Sbgp IP care-High (35 min)	Completed	10/02/17 14:21
CHARGE 99233 Sbgp IP care-High (35 min)	Completed	10/06/17 13:22
CHARGE 99223 Init IP care-High (70 min)	Completed	10/24/17 15:42

Services

- Physician Telephone E & M - Est Pat
- CHARGE 99441 MD phone Eval/Mgmt 5-10min
- CHARGE 99442 MD Phone Eval/Mgt 11-20min
- CHARGE 99443 Phone Eval/Mgmt 21-30min
- Physician Online Service - Est Pat
- CHARGE 99444 MD Online Eval/Mgmt

Order: CHARGE 95961 Func cort/subcor map/1st hr

Order Details: 26 Professional Component, Thoracic myelopathy, Date of Service: 10/16/17

Order Comments:

Order Date/Time: 11/21/2017 15:52

Start Date/Time: 11/21/2017 15:52

Status: Completed

Ordered by: GONZALEZ MD, ANDRES

CHARGE 95971 Analyze neurostim simple

CHARGE 95974 Anlyz,cmpx cm nrv/prg 1hr

CHARGE 95975 Anlyz neuro,cmpx cran nrv/addl 30min

CHARGE 95978 Anlyz neustim brain;prg,1hr

CHARGE 95979 Anlyz neur,cmpx bms/addl 30min

CHARGE 95980 Nerve & Musculo Function: EMG & NC Studies

CHARGE 95981 Needle EMG, 1 extremity 26

CHARGE 95982 Needle EMG, 2 extremity 26

CHARGE 95983 Needle EMG, 3 extremity 26

CHARGE 95984 Needle EMG, 4 extremity 26

CHARGE 95985 di EMG,crania nrv musc,uni 26

CHARGE 95986 di EMG,crania nrv musc,bil 26

CHARGE 95870 Ndl EMG limited,1 musc 26

Professional Component

No brain mapping
 in this spine surgery.

Task Edit View Patient Chart Links Notifications Navigation Help

Home Message Center Patient List Schedule Viewer Physician Handoff Discharge Dashboard KeckCare Assist Case Selection Lexicomp iMed Consent Cures Call Schedule AntibioGram/ASP

Tear Off Suspend Charges Exit Calculator Explorer Menu AdHoc Medication Administration PM Conversation Depart Communicate

LocUSC-SS-5315: A Age 62 years Sex: Male Allergies: MARK
 Inpatient [Admit Dt:10/16/2017 05:31:00 PDT Disch Dt: 10/26/2017 13:52:00 ... Attending: MyUSC Chart: No Not Interested [11/06/20... GMLOS | DRG: 9.6 day(s) | 456 - SPL... Blood Trans Acceptable to Pt:Yes] FINE

Menu - All Ambulatory Views

Ambulatory Views
 Inpatient Views
 Provider View
 Operative Summaries
 Physician Handoff
 SBAR
 Demographics
 Results Review
 TView/I and O
 Allergies + Add
 Orders + Add
 Medication List + Add
 Reports/Documents + Add
 Provider Documentati... + Add
 Pending Studies
 MAR Summary
 eMAR
 Form Browser
 Histories

Neurology Pro... X Ambulatory W... X Ambulatory Su... X Discharge Sum... X Ambulatory Qu... X Anes. Acute Pa... X

Inpatient Discharge Meds as Rx All

Submitted Charges (19)

Charge	Status	Ordered
CHARGE 95937 Neuromusc Junc	Completed	11/21/17 15:52
CHARGE 95961 Func	Completed	11/21/17 15:52
CHARGE 95939 TcMEP	Completed	11/21/17 15:52
CHARGE 95938 Short-lat SSEP,up&low limbs	Completed	11/21/17 15:52
CHARGE G0453 Cont	Completed	11/21/17 15:52
CHARGE 99233 Sbgas IP	Completed	11/02/17 16:21
CHARGE 99233 Sbgas IP	Completed	10/26/17 13:23
CHARGE 99223 Init IP	Completed	10/24/17 15:42

Order: CHARGE 95938 Short-lat SSEP,up&low limbs
 Order Details: 26 Professional Component, Thoracic myelopathy, Date of Service: 10/16/17
 Order Comments:
 Order Date/Time: 11/21/2017 15:52
 Start Date/Time: 11/21/2017 15:52
 Status: Completed
 Ordered by: GONZALEZ MD, ANDRES

CHARGE 98967 Non-MD Phone Assess 11-20m
 CHARGE 98968 Non-MD Phone Assess 21-30m
 CHARGE 98969 Non-MD Online Eval/Mgmt

CHARGE 95861 Needle EMG, 2 extremity 26 Professional Component
 CHARGE 95863 Needle EMG, 3 extremity 26 Professional Component
 CHARGE 95864 Needle EMG, 4 extremity 26 Professional Component
 CHARGE 95867 Ndl EMG,crania nrv musc,uni 26 Professional Component
 CHARGE 95868 Ndl EMG,crania nrv musc,bil 26 Professional Component
 CHARGE 95870 Ndl EMG limited,1 musc 26 Professional Component

Task Edit View Patient Chart Links Notifications Navigation Help

Home Message Center Patient List Schedule Viewer Physician Handoff Discharge Dashboard KeckCare Assist Case Selection Lexicomp iMed Consent Cures Call Schedule Antibigram/ASP

Tear Off Suspend Charges Exit Calculator Explorer Menu Ad-hoc Medication Administration PM Conversation Depart Communicate

LocUSC-SS-5115-A Age: 62 years Sex: MyUser: Chart: No Not Interested [11/06/2017] Allergies: MRI Fin#

Inpatient [Admit Dt: 10/16/2017 05:31:00 PDT Disch Dt: 10/26/2017 13:02:00 ... Attending: GMLOS | DRG: 9.6 day(s) | 456 - SPL... Blood Trans Acceptable to Pt? Yes

Menu - All Ambulatory Views

Ambulatory Views Inpatient Views Provider View Operative Summaries Physician Handoff SBAR Demographics Results Review View/I and O Allergies Add Orders Add Medication List Add Reports/Documents Add Provider Documentation Add Pending Studies MAR Summary eMAR Form Browser Histories

Neurology Pro... Ambulatory W... Ambulatory Su... Discharge Sum... Ambulatory Qu... Anes. Acute Pa... + Discharged

Inpatient Discharge Meds as Rx All

Submitted Charges (13)

Charge	Status	Ordered
CHARGE 95937 Neuromusc Junc tst, 1mth/nrv	Completed	11/21/17 15:52
CHARGE 95961 Func cort/subcor map/1st hr	Completed	11/21/17 15:52
CHARGE 95939 TcMEP, upper and lower limbs	Completed	11/21/17 15:52
CHARGE 95938 Short-lat SSEP, up&low limbs	Completed	11/21/17 15:52
CHARGE 90453 Cont IDNM out OR, 1:1/15 min	Completed	11/21/17 15:52
CHARGE 99233 Sbos IP care-High (35 min)	Completed	11/02/17 16:21
CHARGE 99233 Sbos IP care-High (35 min)	Completed	10/26/17 13:23
CHARGE 99223 Init IP care-High (70 min)	Completed	10/24/17 15:42

Order: CHARGE 95939 TcMEP, upper and lower limbs

Order Details: 26 Professional Component, Thoracic myelopathy, Date of Service: 10/16/17

Order Comments:

Order Date/Time: 11/21/2017 15:52

Start Date/Time: 11/21/2017 15:52

Status: Completed

Ordered by: GONZALEZ MD, ANDRES

Nonphysician Telephone - Est Pat

CHARGE 98966 Non-MD Phone Assess 5-10m Professional Component

CHARGE 98967 Non-MD Phone Assess 11-20m Professional Component

CHARGE 98968 Non-MD Phone Assess 21-30m Professional Component

Nonphysician Online Service - Est Pat

CHARGE 98969 Non-MD Online Eval/Mgmt Professional Component

CHARGE 95860 Needle EMG, 1 extremity 26 Professional Component

CHARGE 95861 Needle EMG, 2 extremity 26 Professional Component

CHARGE 95863 Needle EMG, 3 extremity 26 Professional Component

CHARGE 95864 Needle EMG, 4 extremity 26 Professional Component

CHARGE 95867 Ndi EMG, crania nrv musc, unit 26 Professional Component

CHARGE 95868 Ndi EMG, crania nrv musc, bil 26 Professional Component

CHARGE 95870 Ndi EMG limited, 1 musc 26 Professional Component

lyze neurostim simple
yz, cmpr crn nrv, prg 1hr
yz neuro, cmpr cran nrv/adtl
yz neurostim brain, prg, 1hr
yz neur, cmpr bmn/adtl 30mn
Muscle Function: EMG & NC

8

Task Edit View Patient Chart Links Notifications Navigation Help

Home Message Center Patient List Schedule Viewer Physician Handoff Discharge Dashboard KeckCare Assist Case Selection Lexicomp Med Consent Cures Call Schedule Antibigram/ASP

Tear Off Suspend Charges Exit Calculator Explore Menu Ad Hoc Medication Administration PM Conversation Depart Communicate

LocUSC-55: 5115: A Age: 62 years Sex: Male Allergies: MRN: 1111111111

Inpatient (Admit Dt: 10/16/2017 05:31:00 PDT Disch Dt: 10/26/2017 13:02:00 ... Attending: MyUSC Chart: No Not Interested [11/06/2...]

Menu - All Ambulatory Views

Neurology Pro... Ambulatory W... Ambulatory Su... Discharge Sum... Ambulatory Qu... Anes. Acute Pa... Discharged

Submitted Charges (14)

Charge	Station	Ordered	Completed	Time
CHARGE 95937	Neuromusc Junc	Completed	11/21/17	15:52
CHARGE 95961	Func cort/subcor map/1st hr	Completed	11/21/17	15:52
CHARGE 95939	TcMEP, upper and lower limbs	Completed	11/21/17	15:52
CHARGE 95938	Short-lat SSEP, up&low limbs	Completed	11/21/17	15:52
CHARGE 90453	Cont IONM out OR, 1:1/15 min	Completed	11/21/17	15:52
CHARGE 99233	Sbqs IP care-High (35 min)	Completed	11/02/17	16:21
CHARGE 99233	Sbqs IP care-High (35 min)	Completed	10/26/17	13:23
CHARGE 99223	Init IP care-High (70 min)	Completed	10/24/17	15:42

Services

Physician Telephone E & M - Est Pat

CHARGE 99441 MD phone Eval/Mgmt 5-10min

CHARGE 99442 MD Phone Eval/Mgt 11-20min

CHARGE 99443 Phone Eval/Mgmt 21-30min

Order: CHARGE 95937 Neuromusc Junc tst, 1mth/nrv

Order Details: 26 Professional Component, Thoracic myelopathy, Date of Service: 10/16/17

Order Comments:

Order Date/Time: 11/21/2017 15:52

Start Date/Time: 11/21/2017 15:52

Status: Completed

Ordered by: GONZALEZ MD, ANDRES

CHARGE 95971 Analyze neurostim simple

CHARGE 95974 Anlyz,cmpx cm nrv/prg 1hr

CHARGE 95975 Anlyz neuro,cmpx cran nrv/addl 30min

CHARGE 95978 Anlyz neurostim brain;prg,1hr

CHARGE 95979 Anlyz neur,cmpx bry/adl 30min

Needle EMG, 1 extremity 26

Needle EMG, 2 extremity 26

Needle EMG, 3 extremity 26

Needle EMG, 4 extremity 26

di EMG,crania nrv musc,unil 26

Professional Component

CHARGE 95868 Ndi EMG,crania nrv musc,bil 26


Professional Component

CHARGE 95870 Ndi EMG limited,1 musc 26

Professional Component

MRI Brain w/o Contrast
* Final Report *



Document Type: MRI Brain w/o Contrast
*Date - Date of Service: October 19, 2017 12:30 PDT
Document Status: Auth (Verified)
Document Title: MRI Brain w/o Contrast
Author: TEJERINA FEL, MANFRED on October 20, 2017 08:20 PDT
Authenticated By: SHIROISHI MD, MARK on October 20, 2017 17:35 PDT
Encounter info:  KH-USC, Inpatient, 10/16/2017 - 10/26/2017

*** Final Report ***

Reason For Exam
ischemic stroke on CT

REPORT
MR OF THE BRAIN WITHOUT CONTRAST

CLINICAL HISTORY: Ischemic stroke on CT. Recent hypotension.

Comparison: CT head from earlier today

Technique: T1-weighted sagittal and axial images, FLAIR and T2-weighted axial images, gradient echo axial images, and trace diffusion images with corresponding ADC maps in the axial plane of the brain were obtained for evaluation.

FINDINGS:

There are multiple areas of restricted diffusion involving the bilateral occipital/frontoparietal cortices, thalami and cerebellum consistent with multifocal acute infarcts secondary to hypotensive/hypoxic ischemic injury.

The ventricles and sulci are prominent due to diffuse cerebral age-related volume loss. Prominent bilateral centrum semiovale lacunar infarcts are noted. There is extensive confluent periventricular and centrum semiovale deep and subcortical white matter T2 hyperintensity which is nonspecific but likely related to chronic small vessel ischemic disease. There is no shift of midline structures. No significant extra-axial collections of fluid or blood are demonstrated.

The sella and parasellar regions are unremarkable in appearance. The normal signal flow-voids of the vessels of the skull base are identified and unremarkable in appearance.

Mild fluid is noted in the right mastoid air cells. The visualized orbits, left mastoid air cells, and paranasal sinuses are unremarkable in appearance. No focal lesions of the bony calvarium or soft tissues of the scalp are identified.

IMPRESSION:

1. Multifocal supratentorial/infratentorial acute infarcts as described concerning for hypotensive injury.
2. No acute hemorrhage or midline shift.
3. Age-related volume loss and severe chronic small vessel ischemic disease.

Signature Line
***** Final Report *****



MRI Brain w/o Contrast

* Final Report *



Dictated: 10/20/2017 8:20 am Dictated by: TEJERINA FEL, MANFRED

Fellow/Resident: TEJERINA FEL, MANFRED

I certify that I have directed and participated in the above procedure,
reviewed the images, and agree with the interpretation.

Electronic Signature: 10/20/17 5:35 pm Signed by: SHIROISHI MD, MARK

Disclaimer: This document was generated using voice recognition system,
which may produce sporadic inaccurate transcription or nonsensical phrases.

IMAGE

This document has an image



Operative Report
* Final Report *



Document Type: Operative Report
*Date - Date of Service: October 16, 2017 05:31 PDT
Document Status: Auth (Verified)
Document Title: Operative/Procedure
Author: HAH MD, RAYMOND on October 22, 2017 21:48 PDT
Authenticated By: HAH MD, RAYMOND on October 26, 2017 07:11 PDT
Encounter info: [REDACTED] KH-USC, Inpatient, 10/16/2017 - 10/26/2017
Contributor system: USC_EMDATF

*** Final Report ***

Operative/Procedure

DATE OF SERVICE: 10/16/2017

Patient Name: [REDACTED]
Medical Record #: [REDACTED]
Date of Birth: 07/06/1956

SURGEON: Raymond Hah, M.D.

CO-SURGEON: Frank Acosta, M.D.

ASSISTANT: Ben Strickland, M.D.

PREOPERATIVE DIAGNOSIS:

1. Thoracolumbar kyphosis secondary to compression fractures.
2. Thoracolumbar compression fractures.
3. Chronic back and leg pain.
4. Sagittal plane spinal imbalance.
5. History of prior thoracolumbar kyphoplasty.

POSTOPERATIVE DIAGNOSIS:

1. Thoracolumbar kyphosis secondary to compression fractures.
2. Thoracolumbar compression fractures.
3. Chronic back and leg pain.
4. Sagittal plane spinal imbalance.
5. History of prior thoracolumbar kyphoplasty.

OPERATIVE PROCEDURE:

1. T4 to pelvis posterior spinal fusion with instrumentation.
2. Harvesting of iliac crest autograft for spinal fusion.
3. T11-12, T12-L1 and L1-2 posterior column osteotomies which are Smith-Peterson osteotomies.
4. Use of local autograft for spinal fusion.
5. Manipulation of the spine under anesthesia.
6. Use of intraoperative neuromonitoring.



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Operative Report
* Final Report *



7. Use of intraoperative fluoroscopy with interpretation.
8. Use of intraoperative frameless stereotactic CT navigation.
9. Use of morcellized allograft for spinal fusion.
10. Use of osteoinductive agent for spinal fusion.
11. Reconstruction of interspinous ligament with semitendinosus allograft.

ANESTHESIA: General endotracheal tube.

INDICATIONS FOR PROCEDURE: [REDACTED] a 61-year-old male with a history of the above mentioned diagnoses. He failed conservative nonoperative treatment and elected to proceed with surgery after thorough discussion of the risks, benefits and alternatives. Surgical consent was signed and documented in the chart prior to the procedure.

Due to the complexity of the case, I was requested by Dr. Frank Acosta to assist as co-surgeon as there was no qualified resident available to perform in this regard. We simultaneously did our respective sides of the procedure. I performed the left sided as he performed the right side.

PROCEDURE: After the patient was properly identified and informed consent was confirmed, he was brought to the operating room and general endotracheal tube anesthesia was induced without incident. He received preoperative antibiotics. He was positioned prone on the Jackson table with all pressure points appropriately padded. The back was shaved, prepped and draped in the usual sterile fashion. A final timeout was performed.

A #10 blade was used to make a midline incision. A combination of electrocautery and self-retaining retractors were used to dissect to expose bilateral lamina transverse process, facets from T4-L5. In addition, the bilateral sacral ala and iliac crest were dissected and exposed with handheld and self-retaining retractors and electrocautery.

A 3 x 3 x 3 cm portion of iliac crest bone was harvested bilaterally with a 0.50 osteotome which was safe for use as iliac crest autograph in later spinal fusion.

Next, using standard anatomic landmarks, pedicle screws were placed bilaterally from T4-S1. Screw tracks were created, tapped and appropriately-sized screws were inserted. All neuromonitoring remained stable. Bilateral iliac bolts were also placed. Using anatomic landmarks, the screw tracts were created, palpated, tapped and appropriate-sized screws were inserted. Of note, T12 and L1 these screws were not placed as these were the level of compression fractures and they were not able to be placed. At T11 there was a screw on the left but left out on the right.



Operative Report

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Next, a spinous process clamp was attached at the L5 spinous process and the T10 spinous process, a frame was attached to the spinous process clamps and the intraoperative CT scanner was brought into position. After a series of intraoperative localization fluoroscopic images, a series of intraoperative frameless stereotactic CT navigation scans were obtained from T4 to the pelvis. All instruments were registered to the reference frame and frameless stereotactic CT navigation system. Once the CT scans had been obtained the placement of the screws were reassessed. The left T4 screw was in the lateral position. This was repositioned using the frameless stereotactic CT navigation system and registered instruments. The right-sided iliac bolt was repositioned in a more medial position as it was noted to have breached the outer cortex. The right-sided L5-S1 screws were placed using the frameless stereotactic CT navigation system and registered instruments. The screw tracks created, palpated and appropriate-sized screws inserted. All neuromonitoring remained stable and in the L1 screws they all stimulated above triggered EMG threshold.



Next, the spinous processes from T8-L4 were harvested with Leksell rongeur and morcellized for use in spinal fusion as harvested local autograft.

At this point we began with our posterior column osteotomies. We did this at the T11-12, T12-L1 and L1-2 levels in the following fashion: A high speed drill was used to perform bilateral laminotomies. Bilateral superior and inferior facetectomies were performed with a combination of high speed drill and Kerrison rongeur. The osteotomy was carried lateral with Kerrison rongeur and the underlying ligamentum flavum was removed. Adequate decompression and completion of the osteotomy was confirmed through the Woodson dissector and hemostasis was obtained with Surgiflo and bipolar electrocautery.

In a similar fashion, we did this at T12-L1 and L1-2 for a total of 3 Smith-Peterson osteotomies. Again, a high speed drill was used to perform a laminotomy. Bilaterally the underlying ligamentum flavum was removed with Kerrison rongeur. Bilateral inferior and superior facetectomies were performed with a combination of high speed drill and Kerrison rongeur and was carried laterally. Completion of the osteotomy was confirmed and the Woodson dissector and hemostasis obtained with Surgiflo and bipolar electrocautery.

The interspinous ligament was reconstructed at the superior aspect of the construct by reinforcing a section of semitendinosus allograft with a #2 fiber loop and weaving this from approximately T3-6.

Appropriate-sized rods were sized, cut, contoured and secured to



Operative Report

* Final Report *

the pedicle screws first on the left of the appropriate set screws, a cantilever force was applied to the rod across the posterior column osteotomy site as to reduce the patient's kyphosis. All neuromonitoring remained stable. The rod was then secured to the pedicle screws from T4 to the pelvis and all of these were final tightened. Next, on the right side an appropriate-sized rod was sized, cut, contoured and secured to the pedicle screws from T4 to the pelvis using appropriate set screws. In a similar fashion a cantilever maneuver was again applied across the osteotomy site as to reduce the patient's kyphosis entailed manipulation of the spine under anesthesia. All neuromonitoring remained stable. Facet screws were final tightened. The wound was pulse lavaged with 6 liters of dilute bacitracin. The remaining facet joints, lamina and transverse processes from T4 to the pelvis were decorticated with a high speed drill and grafted with a combination of 2 large Infuse osteoinductive BMP kits as well as 80 mL of morcellized Osteoecel autograft and 60 mL of cancellous autograft chips as well as the previous harvested local autograft and harvested iliac crest autograft.

Vancomycin and tobramycin powder were applied to the paraspinal muscles and the wound was closed in layer over two 19 Blake drains. A #1 PDS for the fascia, 2-0 Vicryl for the subdermal layers and staples for the skin. The wound was dressed with sterile dressings. The patient was returned to the supine position. All neuromonitoring remained stable.

During the case, anesthesia team attempted transfusion of the patient multiple times with each attempt resulting in profound hypotension. At the end of the procedure, the patient was unstable in terms of his heart rate and blood pressure and so our closure proceeded rapidly and the patient was then returned to the supine position and the anesthesia team continued to stabilize the patient. He required advanced resuscitation including series of cardiopulmonary resuscitation. All neuromonitoring remained stable throughout the entirety of this. Once stabilized by the anesthesia team, he was taken intubated to the ICU in critical condition. All sponge and needle counts were correct x2.

Again, due to the complexity and magnitude of the case and the patient's spinal deformity, I was requested by Dr. Acosta to assist as co-surgeon as there was no qualified resident to serve in this regard.

RH/mk

D: 10/22/2017 9:48:27 PM PST

T: 10/23/2017 1:43:57 AM PST

J#:

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Operative Report
* Final Report *



Signature Line
Electronically Signed On 10/26/17 07:11 AM PDT

RAYMOND HAH



Page 5 of 5
(End of Report)

Exhibit 31

SURGICAL NEUROPHYSIOLOGY BILLING SLIP

DATE: 9-18-17 PROCEDURE Right Parotidectomy

DIAGNOSIS Giant Cell Tumor

QTY	CDM #	DESCRIPTION	CPT#		QTY	CDM #	DESCRIPTION	CPT#
	748-5940	OR MONITORING PER EVERY 15 MIN IN	95940			748-5830	ELECTROCORTICOGRAPHY	95829
	748-5938	SOMATOSENSORY EVP-UPPER / LOWER LIMB	95938			748-5822	EEG, ANEURYSM	95822
	748-5939	CENTRAL MOTORS EP - UPPERS / LOWER (TCeMEP)	95939			748-5871	VISUAL EVOKED POTENTIAL	95930
	748-5861	EMG 2 EXTREMITY	95861			748-5864	EMG 4 EXTREMITY	95864
	748-5937	NEUROMUSCULAR JUNCT TEST (TRAIN OF FOUR)	95937			748-5873	EMG CRANIAL BILATERAL	95868
	748-2587	AUDITORY EVOKED POTENTIAL	92585			748-5872	EMG CRANIAL UNILATERAL	95867
	748-6040	SOMATOSENSORY EVP-UPPER LIMB	95925			748-5926	CENTRAL MOTORS EP - UPPERS (TCeMEP)	95928
	748-6042	SOMATOSENSORY EVP-LOWER LIMB	95926			748-5929	CENTRAL MOTORS EP - LOWERS (TCeMEP)	95929
	748-5978	DEEP BRAIN STIMUL., 1ST	95978			748-5957	BRAIN MAPPING 1 ST HR	95961
	748-5979	DEEP BRAIN STIMUL., ADDTL 30 MIN'S	95979			748-5958	BRAIN MAPPING ADDTL HR	95962

MISCELLANEOUS CHARGES

QTY	CDM #	DESCRIPTION	CPT#	TOTAL CHARGES
	748-8999			\$
	748-8999			\$

REPORTING OF CRITICAL VALUES

CRITICAL CHANGES/ FINDINGS IDENTIFIED: _____

TIME CRITICAL CHANGES/ FINDINGS IDENTIFIED: _____

PHYSICIAN NOTIFIED: _____

TIME NOTIFIED: _____

READ BACK OBTAINED? _____

TIME OF READ BACK: _____

Initial date: 1980

End 10AM: 2025

INTRAOPERATIVE MONITORING

TOTAL MONITORING HOURS: 4 hrs 10 min

TECH IN 1600

TECH OUT 2300

CONFIRMED BY X

Krisi M
Surgery RN - Name

AI

Adam Ibrahim
Initials meds want

Keck Hospital of USC
1500 San Pablo Street

DOB: _____
DOS: _____

FIN: _____

ARN




Facial Nerve Monitoring

Date	9/18/17			DOB: [REDACTED] DOS: [REDACTED]					
surgeon	Dr. Ke Kat, Niala C. Tyson			MRN: [REDACTED] FIN: [REDACTED]					
Procedure	Right Parotidectomy			[Barcode]					
Tech	Adam Ibrahim CNIM								
P. 1/2									
		Frontalis		Orbicularis Oculi		Orbicularis Oris		Mentalis	
Time	Event	Threshold	amplitude	Threshold	amplitude	Threshold	Amplitude	Threshold	Amplitude
1600	Tech arrival in OR	MA	µV	MA	µV	MA	µV	MA	µV
	Case delayed to 1830								
1847	PTID ROOM								
1909	Succinylcholine in								
1920	Initial EMG data								
1940	Time Out								
1941	Incision								
2012	Dissection in (2nd specimen) (progress 1st)								
2030	Stim Response	0.5 MA	136 µV	0.5	69	0.5	124	0.5	124
2047	SpEMG Activity/transient spic		10 µV		12 µV		327 µV		128 µV
2111	Stim Response	0.5	438 µV	0.5	400 µV	0.5	200 µV	0.5	122 µV
2212	SpEMG Bursts		5 µV		130 µV		333 µV		189 µV
	Silent between freq bursts								
	Middle + lower branches								
	Tumor Excision/Retraction								
2209	Orbicularis Oris +								
	Mentalis Electrodes mistakenly pulled by surgeon upon entering the patients mouth. NM offered replacement electrodes (sterile) surgeon declined. Disabled Orb. Oris + Ment.								
2212	Continued dissection upper branch monitoring only (Frontalis + Orb. Oculi)								
2215	Tumor Removed + sent for Frozen section. Parotidectomy complete								
2217	Final T-EMG	0.5 MA	427 µV	0.5 MA	337 µV				
	surgeon aware: No Orb Oris + No Ment.								
2220	Surgeon dismissed 10NM. stated OR team will remove sharps remaining Count: 3 removed @ 2209 5 remaining in right Face 2 remaining in right OR.								
	Nurse informed & aware								

End 10NM 2225, remaining SpEMG Silent Surgeon informed & aware
 No lasting irritation/fibrillation potentials He Acknowledged "OK Thank You!"

Facial Nerve Monitoring

Date	9-18-17	MRN: [REDACTED] DOB: [REDACTED] DOS: [REDACTED] FIN: [REDACTED]							
surgeon	Dr. Kokot, Nels C. Tyson								
Procedure	Right Parotidectomy								
Tech	Adam Ibrahim CNIM								
P.2/2		Frontalis		Orbicularis Oculi		Orbicularis Oris		Mentalis	
Time	Event	Threshold	amplitude	Threshold	amplitude	Threshold	Amlitude	Threshold	Amplitude
2225	End 10NM								
2300	NM out								
	Monitoring Plan:								
	4C SpEMG + TEM6								
	CN VI only per								
	Surgeon No TOF.								
	1= Frontalis 2= Orb Oris								
	3= Orb Oculi 4= Mentalis								
	Moneopolar Probe provided								
	by Mdsuamant								
	No probes available to U/M								
	@ Facility -								
	9-18-17								
	Adam Ibrahim								
	562-685 2679								
									



Physician Orders

Intraoperative Neurophysiological Monitoring (IONM)

Approx Date of Surgery: 9-18-17

MRN: 0 [REDACTED]
DOB: [REDACTED]
DOS: 09/17/2017 01:38
FIN [REDACTED]
[Barcode]

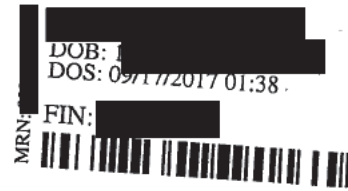
*Date of Birth: 12/22/76

*Ordering Physician Signature: _____

9-18-17
Date

*Ordering Physician: _____

Kevin Llan
Printed Name



Service Verification Form

Intraoperative Neurophysiological Monitoring (IONM)

Date of Service:	9-18-17
Hospital:	Kelk USC
Surgeon:	Dr. Kokot
Medsurant Neuromonitorist:	Adam Ibrahim REPT (IIM)

NOTES: Right Parotidectomy
 NM Arrival: 1600 NM Out: 2300
 Sched start: 1700
 Pt in room: 1847
 End IONM: 2025 (Surgeon dismissed IONM following Tumor Excision & Final T-EMG) Prior to closure.

Facility Representative Signature: x Kristin Renninger 9-18-17
 Facility Representative Name: Kristin RU Date
 Printed Name

* Please refer to IONM Medical Report and Invoice for detail of services provided and facility fees *

Medsurant Contact for Billing Questions and PO Numbers:
 Kristen Renninger | (484) 351-8459 x 223 | HospitalAR@MedsurantHoldings.com

Local Account Executives:
 Grant Bechtold | (310) 569-8429 | GBechtold@MedsurantHoldings.com
 Gina Cervantes | (310) 956-8269 | Gina@MedsurantMonitoring.com

Case Scheduling:
 (949) 613-4743 | CA scheduling@medsurantmonitoring.com

Cheongsiatmoy, Justin

From: Matthews, Angelique
Sent: Thursday, September 28, 2017 8:28 AM
To: Cheongsiatmoy, Justin
Subject: FW: Dr. Chen Room 25 Left And Right Craniotomies @ Keck USC
Attachments: [REDACTED] DR KOKOT.pdf; [REDACTED]
KOKOT.pdf; [REDACTED] IONM Billing Sheet 091817 DR KOKOT.pdf; [REDACTED]
[REDACTED] Event Log 091817 DR KOKOT.pdf

From: Adam Ibrahim [mailto:[REDACTED]]
Sent: Wednesday, September 27, 2017 4:52 PM
To: Matthews, Angelique [REDACTED]
Subject: Re: Dr. Chen Room 25 Left And Right Craniotomies @ Keck USC

Angelique,

Forgive me, but I sent you all the documents I have for Dr. Kokot's case. Which was a NIM machine only case. I was told by Chris Hanson that there was no remote oversight, nor Medical Report for these cases. Just the handwritten Event Log and Tech Billing Sheet.

I've attached what I have again. Again there was no neurologist oversight.
Please contact me by phone with any questions.

Thank you,

Adam Ibrahim R. EP T, CNIM
Clinical Supervisor
Medsurant Monitoring
Cell [REDACTED]



are hereby notified that any distribution or duplication of this communication is strictly prohibited. Any inadvertent receipt by you of such confidential information is not intended to constitute a waiver of any privilege. If you have received this communication in error, please notify us immediately. Thank you.

From: Matthews, Angelique <[REDACTED]>
Sent: Wednesday, September 27, 2017 3:16:20 PM
To: Adam Ibrahim
Subject: RE: Dr. Chen Room 25 Left And Right Craniotomies @ Keck USC

Hello,

Can you please do the report for the case that you covered?

Thank you!
Angelique Matthews

From: Adam Ibrahim [REDACTED]
Sent: Friday, September 22, 2017 4:32 PM
To: Matthews, Angelique <[REDACTED]>
Cc: Micah Gunn [REDACTED]
Subject: Re: Dr. Chen Room 25 Left And Right Craniotomies @ Keck USC

Angelique,

Regarding Medsurant Monitoring cases on 09/18:

1.

Surgeon: Dr Wang
Tech: M. Gunn
RP: Dr. Jon Chen
**Documents sent

2.

Surgeon: Dr. Kokot
Tech: A. Ibrahim
RP: None (NIM monitoring only)
**No documents sent via email as this was a paper only recording with no remote oversight.
I'll include a copy of all documentation for the Dr. Kokot case now, just in case.

Please let me know if we have satisfied your needs 😊

Thank you,

Adam Ibrahim R. EP T, CNIM
Clinical Supervisor
Medsurant Monitoring
Cell: (562) 685-2679



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From: Adam Ibrahim
Sent: Friday, September 22, 2017 2:55:48 PM
To: Matthews, Angelique
Cc: Micah Gunn
Subject: RE: Dr. Chen Room 25 Left And Right Craniotomies @ Keck USC

Angelique,

I will look into it and get back to you ASAP. Apologies for any confusion or delay.

Thank you,
Adam Ibrahim REPT, CNIM
[REDACTED]

On Sep 22, 2017 2:25 PM, "Matthews, Angelique" [REDACTED] wrote:

Hello,

I have a case from him that was done by Dr. Wang, could he have also done the case by Dr. Kokot? The OR report has your name on it so that's why I thought it would have been you to do that case.

Thank you,
Angelique Matthews

From: Adam Ibrahim [REDACTED]
Sent: Friday, September 22, 2017 1:57 PM
To: Matthews, Angelique [REDACTED]
Cc: Micah Gunn [REDACTED]
Subject: RE: Dr. Chen Room 25 Left And Right Craniotomies @ Keck USC

Hello Angelique,

That would be Micah Gunn.

Micah,

Please email the Cascade file, Chat log and USC Medical report to Angelique for your case with Dr. Chen 9/18/17.

Thank you,

Adam Ibrahim REPT, CNIM
Clinical Supervisor
[REDACTED]

On Sep 22, 2017 12:58 PM, "Matthews, Angelique" <[REDACTED]> wrote:

Hello,

Did you do a case here on the 18th? If you did can you please send me the data file and note.

Thank you,

Angelique Matthews

From: Adam Ibrahim [REDACTED]

Sent: Tuesday, September 12, 2017 9:10 PM

To: Matthews, Angelique <[REDACTED]>

Cc: Gonzalez, Andres [REDACTED]

Subject: Dr. Chen Room 25 Left And Right Craniotomies @ Keck USC

Hello Angelique,

Please find the attached Cascade file, Chatlog, and Medical Report for our smooth case today with Dr. Thomas Chen.

Let me know if any further information is required.

Thank you,

Adam Ibrahim R. EP T, CNIM

Clinical Supervisor

Medsurant Monitoring

Cell: [REDACTED]



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Exhibit 32



**USC University Hospital
Intraoperative Neurophysiology**

1500 San Pablo St. Suite 2500. Los Angeles, CA 90033 (323) 442-8852

DATE OF STUDY: 9/8/2008

STUDY #: [REDACTED]

REFERRING PHYSICIAN: Uttam Sinha M.D.

PATIENT HISTORY: 76 yo male with a neck mass

MONITORING MODALITIES: Cranial bilateral (95868)

RESULTS: During neck mass resection the recurrent laryngeal nerve is monitored.

Electrodes were put in place prior to surgery and removed postoperatively. During anesthesia induction, recording electrodes were placed endotracheally at the level of the vocal cords, and the OR physicians were promptly made aware of any spontaneous discharges suggesting irritation of the relevant nerves.

2 hours were spent monitoring. The surgeons were kept informed of the monitoring status and any changes.

A handwritten signature in black ink, appearing to read "ANDRES A. GONZALEZ", with a long, sweeping horizontal line extending to the right.

ANDRES A. GONZALEZ, M.D.

Electronic signature 10/24/2008 12:34:34 PM

ACCOUNT# [REDACTED]

MR# [REDACTED]



USC University Hospital
Intraoperative Neurophysiology

1500 San Pablo St. Suite 2500. Los Angeles, CA 90033 (323) 442-8852

EVENT LOG

Time	Text
10:40	Begin incision
10:55	Exposure
11:00	Surgeon asked if we have significant activity
11:08	Removed neck mass
11:30	End monitoring

ACCOUNT#

MR#

Exhibit 33

DATE OF STUDY: 01/06/2009

STUDY #: [REDACTED]

REFERRING PHYSICIAN: Dennis Maceri, M.D.

PATIENT HISTORY: This is a 43-year-old male with a left parotid mass diagnosed with left pleomorphic parotid adenoma.

RESULTS: During the left parotidectomy, the facial nerve was monitored. Electrodes were put in place prior to surgery and removed postoperatively. After anesthesia induction, recording electrodes were placed subcutaneously in the orbicularis oris and orbicularis oculi and masseter muscles, and the OR physicians were promptly made aware of any spontaneous discharges suggesting irritation of the relevant nerves.

Stimulation of the cranial nerve produced physiologic responses in the orbicularis oris, orbicularis oculi, and masseter in order to help the surgeon identify various neural structures.

Approximately 3 hours were spent monitoring. The surgeons were kept informed of the monitoring status and any changes.

Andres Gonzalez

ANDRES GONZALEZ, M.D.

DATE 1/23/09 TIME 102

Dictated by: DHIRAJ JEYANADARAJAN, M.D.

md

D: 01/21/2009 9:20 A

T: 01/21/2009 2:18 P

J: [REDACTED]

CC:

USC UNIVERSITY HOSPITAL
1500 San Pablo Street
Los Angeles, CA 90033

CRANIAL NERVE MONITORING

MR # [REDACTED]
ACCOUNT # [REDACTED]
387850

Neurophysiology Department

Date 1/6/09

I ANXIETY RELATED TO PERCEIVED THREAT TO BIOLOGIC INTEGRITY SECONDARY TO INVASIVE PROCEDURE			
IDENTIFICATION / VERIFICATION		COGNITIVE / EMOTIONAL STATUS	
Identified <input checked="" type="checkbox"/> Patient <input checked="" type="checkbox"/> MD Band	<input checked="" type="checkbox"/> Awake <input type="checkbox"/> Lethargic	<input checked="" type="checkbox"/> Agitated <input type="checkbox"/> Responsive	<input checked="" type="checkbox"/> No Limitations noted
<input checked="" type="checkbox"/> Surgery/Consent	<input type="checkbox"/> Anxious <input type="checkbox"/> Oriented	<input type="checkbox"/> Calm <input type="checkbox"/> Unresponsive	<input type="checkbox"/> Limitations <input type="checkbox"/> Hearing Deficit
<input type="checkbox"/> Site <input type="checkbox"/> Surgeon	<input type="checkbox"/> Confused <input type="checkbox"/> Disoriented	<input type="checkbox"/> Alert <input type="checkbox"/> Sedated	<input type="checkbox"/> Language Deficit
Verified by <input checked="" type="checkbox"/> Patient <input type="checkbox"/> Guardian/Parent	<input type="checkbox"/> Drowsy <input checked="" type="checkbox"/> Pain 0-10	<input type="checkbox"/> Hostile	<input type="checkbox"/> Limited Mobility <input type="checkbox"/> Visual Deficit <input type="checkbox"/> Memory Deficit
<input type="checkbox"/> Physician <input type="checkbox"/> Medical Record	<input type="checkbox"/> Alcohol Abuse History <input type="checkbox"/> Drug Abuse History	<input type="checkbox"/> Other Factors	Language <input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> Chinese <input type="checkbox"/> Vietnamese
		Translator's name _____	
II RISK FOR INFECTION RELATED TO INVASIVE PROCEDURES			
<input type="checkbox"/> No Factors Identified <input checked="" type="checkbox"/> See Preop Assessment <input type="checkbox"/> Poor Hygiene <input type="checkbox"/> Concurrent Disease Process <input type="checkbox"/> Infectious Process <input type="checkbox"/> Decreased Immune Response			
III RISK FOR INJURY OR IMPAIRMENT			
ALLERGIES <input checked="" type="checkbox"/> None <input type="checkbox"/> Yes		NPO since <u>midnight</u>	
Presents With <input type="checkbox"/> IV <input type="checkbox"/> EKG <input type="checkbox"/> O2 <input type="checkbox"/> Traction <input type="checkbox"/> Foley Catheter <input type="checkbox"/> Other			
Preop Skin Condition <input checked="" type="checkbox"/> Warm <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Pale <input type="checkbox"/> Diaphoretic <input type="checkbox"/> Other			
<input type="checkbox"/> Rash, Lesions, Bruise, Swelling Site/Description		<u>* pacemaker lead still in chest</u>	
Risk Factors <input type="checkbox"/> None <input type="checkbox"/> Cardiac <input type="checkbox"/> Hx of Venous thromboembolism <input type="checkbox"/> Pacemaker <input type="checkbox"/> Obesity <input type="checkbox"/> Edema <input type="checkbox"/> Diabetes <input type="checkbox"/> Immunosuppression			
ROM Limitations <input type="checkbox"/> None <input type="checkbox"/> Yes/Describe			
Notes <u>appy, pacemaker implant 3 removed</u>		RN Signature <u>[Signature]</u> Time <u>1000</u>	
I OUTCOME - PATIENT RELATES AN INCREASE IN PSYCHOLOGICAL AND PHYSIOLOGIC COMFORT			
<input checked="" type="checkbox"/> OR Protocol explained to patient		<input checked="" type="checkbox"/> Patient encouraged to ask questions & verbalize concerns	
<input checked="" type="checkbox"/> Conveyed caring supportive attitude, initiated comfort measures		<input checked="" type="checkbox"/> Pt acknowledged preop teaching <input checked="" type="checkbox"/> Remained with patient during induction	
Other _____			
II OUTCOME - PATIENT'S SURGERY PERFORMED USING ASEPTIC PRACTICES AND IN A MANNER TO PREVENT CROSS-CONTAMINATION			
Hair Removal <input type="checkbox"/> None <input checked="" type="checkbox"/> Clip <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Antibiotic(s) Time Given <u>1125</u> <input type="checkbox"/> N/A Wound Classification <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	
Skin Prep <input type="checkbox"/> None <input checked="" type="checkbox"/> Betadine <input type="checkbox"/> Scrub <input checked="" type="checkbox"/> Solution <input checked="" type="checkbox"/> Gel <input type="checkbox"/> Alcohol <input type="checkbox"/> Dry prior to draping		Other <u>ChloraPrep</u> Site <u>Left fore to ear hair</u>	
Urinary Catheter Inserted By <u>[Signature]</u> Type/Size <u>0</u>		<input type="checkbox"/> Catheter Removed <input type="checkbox"/> Output	
Implants <input type="checkbox"/> None <input checked="" type="checkbox"/> Yes, See Implant Tracking Log			
Packing/Drains/Site			
Dressing <u>Permanon's Pluff Gauze and Gauze Bandage to Ear</u>		Applied By <u>[Signature]</u> <input type="checkbox"/> Outside Vendor	
Therapeutic Device			
III OUTCOME - PATIENT FREE FROM S & S OF INJURY, RELATED TO POSITIONING, EXTRANEIOUS OBJECTS AND EQUIPMENT			
ESU / ARGON		POSITIONING	
ID # <u>ESJ11112</u> Pad Lot # <u>082441</u>	<input checked="" type="checkbox"/> Supine <input type="checkbox"/> Prone <input type="checkbox"/> Lateral <input type="checkbox"/> R <input type="checkbox"/> L <input type="checkbox"/> Jackknife	<input checked="" type="checkbox"/> Head & Neck	
<input checked="" type="checkbox"/> Bipolar <u>HP2348A</u>	<input checked="" type="checkbox"/> Lithotomy Stirrups <input type="checkbox"/> Boot <input type="checkbox"/> Knee <input type="checkbox"/> Sling	<input checked="" type="checkbox"/> Safety Strap/Site <u>across thigh</u> Warm Blanket	
<input type="checkbox"/> ABC <input type="checkbox"/> APC	Arm on Arm Board <input type="checkbox"/> R <input type="checkbox"/> L By <u>[Signature]</u>	Arm Tucked at Side <input type="checkbox"/> R <input type="checkbox"/> L By <u>[Signature]</u>	
<input type="checkbox"/> Other	Ulnar Nerves Padded <input type="checkbox"/> Body Alignment Maintained	<u>padding on hands, elbows, heels</u>	
Coag Setting <u>25</u> Cut Setting <u>35</u>	Positioned By <u>[Signature]</u>		
Pad Applied By <u>H. Kim RV</u>			
Site <u>(R) thigh</u>			
Post Procedure Skin Condition at Pad Site <input checked="" type="checkbox"/> Clear/Intact			
COUNTS		TOURNIQUET	
Type	Initial Count Done by <u>M. Kim RV, L. Spitaleri RV</u>	<input type="checkbox"/> Tested Preop ID#	
Sponge	Correct <input checked="" type="checkbox"/> Incorrect <input type="checkbox"/>	Checked By <u>[Signature]</u>	
Needle	Correct <input checked="" type="checkbox"/> Incorrect <input type="checkbox"/>	Applied By <u>[Signature]</u>	
Instrument	Correct <input checked="" type="checkbox"/> Incorrect <input type="checkbox"/>	Site <u>[Signature]</u>	
Circulator <u>H. Kim RV / M. Kim RV</u>	Surgeon Notified of Count <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scrub <u>R. Aparicio ORT / R. [Signature]</u>	Action if Incorrect <input checked="" type="checkbox"/> N/A <input type="checkbox"/> X-ray Taken		
VISUALS			
<input checked="" type="checkbox"/> None <input type="checkbox"/> Photographs <input type="checkbox"/> Video Tape <input type="checkbox"/> CD / DVD			
Visuals to <input type="checkbox"/> MD <input type="checkbox"/> Patient <input type="checkbox"/> Chart			

TRC1001 (4 08)

IMMS # 121113

INTRAOPERATIVE NURSING RECORD

Page 1 of 3

PATIENT ID

USC Library Hosp cal 0207



WHITE - MEDICAL RECORD

CANARY - DEPARTMENT

PINK - OTHER

Date	OR #	Time in Room	Anesthesia Start	Surgery Start	Surgery End	Anesthesia End	Time Out of Room	<input checked="" type="checkbox"/> OP <input type="checkbox"/> IP <input type="checkbox"/> AM	<input checked="" type="checkbox"/> Scheduled <input type="checkbox"/> Add on Elective <input type="checkbox"/> Emer / Trauma
1/6/09	18	1102	1101	1146	1424	1445	1430		
Preop Diagnosis <i>pleomorphic parotid adenoma</i>									
Procedure <i>left superficial parotidectomy with dissection and preservation of facial nerve</i>									
Postop Diagnosis <i>same as above</i>									
ANESTHESIA <input checked="" type="checkbox"/> Gen <input type="checkbox"/> MAC <input type="checkbox"/> Local <input type="checkbox"/> Block Type <i>ETT</i> <input checked="" type="checkbox"/> Intubated <i>ASA 2</i> <input type="checkbox"/> Masked									
ANESTHESIA AGENTS See Anesthesia Record <input type="checkbox"/> LMA <input type="checkbox"/> Pending Pathology Report									
ANESTHESIOLOGIST <i>Dr. F. Takla MD/B. Bauer (CRNA)</i> OTHERS <i>M. Duckworth</i>									
SURGEON <i>Dr. D. Hacert MD (A)</i>									
1st Assist <i>Dr. K. Hartbar (Res)</i>									
2nd Assist <i>Ø</i>									
CIRCULATING RN IN/OUT IN/OUT IN/OUT									
<i>H. Km RN start 1150-1400 End</i>									
<i>L. Sapitola RN 1350-1400 End</i>									
SCRUB RN/LVN/ORT IN/OUT IN/OUT IN/OUT									
<i>L. Sapitola RN start 1215</i>									
<i>R. Aparacio ORT 1210-End</i>									
IRRIGATION / MEDICATION									
<i>0.25% Bupivacaine plain</i>									
<i>NAAC</i>									
<i>Tisseel</i>									
<i>Bactracin ointment</i>									
AMOUNT									
<i>(none) used</i>									
<i>1L</i>									
<i>10ml</i>									
<i>X1</i>									
METHOD									
<i>for local motion</i>									
<i>for motion</i>									
<i>for Hemostasis</i>									
<i>topical apply + J@car</i>									
SPECIMENS <input type="checkbox"/> NO SPECIMEN COLLECTED									
TYPE									
<input checked="" type="checkbox"/> PERMANENT <input type="checkbox"/> FS <input type="checkbox"/> OTHER									
<input type="checkbox"/> C/S AEROBIC / ANAEROBIC									
<input type="checkbox"/> PERMANENT <input type="checkbox"/> FS <input type="checkbox"/> OTHER									
<input type="checkbox"/> C/S AEROBIC / ANAEROBIC									
<input type="checkbox"/> PERMANENT <input type="checkbox"/> FS <input type="checkbox"/> OTHER									
<input type="checkbox"/> C/S AEROBIC / ANAEROBIC									
<input type="checkbox"/> PERMANENT <input type="checkbox"/> FS <input type="checkbox"/> OTHER									
<input type="checkbox"/> C/S AEROBIC / ANAEROBIC									
<input type="checkbox"/> PERMANENT <input type="checkbox"/> FS <input type="checkbox"/> OTHER									
<input type="checkbox"/> C/S AEROBIC / ANAEROBIC									
<input type="checkbox"/> PERMANENT <input type="checkbox"/> FS <input type="checkbox"/> OTHER									
<input type="checkbox"/> C/S AEROBIC / ANAEROBIC									
DISPOSITION									
<input checked="" type="checkbox"/> PATH <input type="checkbox"/> XRAY <input type="checkbox"/> LAB									
<input type="checkbox"/> PATH <input type="checkbox"/> XRAY <input type="checkbox"/> LAB									
<input type="checkbox"/> PATH <input type="checkbox"/> XRAY <input type="checkbox"/> LAB									
<input type="checkbox"/> PATH <input type="checkbox"/> XRAY <input type="checkbox"/> LAB									
<input type="checkbox"/> PATH <input type="checkbox"/> XRAY <input type="checkbox"/> LAB									
<input type="checkbox"/> PATH <input type="checkbox"/> XRAY <input type="checkbox"/> LAB									
<input type="checkbox"/> PATH <input type="checkbox"/> XRAY <input type="checkbox"/> LAB									
<input type="checkbox"/> PATH <input type="checkbox"/> XRAY <input type="checkbox"/> LAB									
OUTCOMES									
I Patient relates an increase in psychological and physiologic comfort									
Met <input checked="" type="checkbox"/> Not Met <input type="checkbox"/>									
II Patient's surgery performed using aseptic practices and in a manner to prevent cross-contamination									
Met <input checked="" type="checkbox"/> Not Met <input type="checkbox"/>									
III Patient free from S & S of injury, related to positioning, extraneous objects and equipment									
Met <input checked="" type="checkbox"/> Not Met <input type="checkbox"/>									
Discharged Via <input type="checkbox"/> Surgi Lift <input type="checkbox"/> Patient Bed <input type="checkbox"/> Crib									
Discharged To <input checked="" type="checkbox"/> PACU <input type="checkbox"/> OPS/ASU <input type="checkbox"/> ICU/CCU/CSU									
Notes <i>The patient transported to PACU with 8L/min via mask</i>									
RN Signature <i>M Km RN</i>									

TRC1001 (4-08)

IMMS # 121113

INTRAOPERATIVE NURSING RECORD

Page 2 of 3

PATIENT ID

C.S. University Hospital 0207



WHITE - MEDICAL RECORD

CANARY - DEPARTMENT

PINK - OTHER

3

NOTES

REDACTED

REDACTED

DATE OF OPERATION: 01/06/2009

SURGEON: Dennis Maceri, M.D.

ASSISTANT: _____

PREOPERATIVE DIAGNOSIS:

Left pleomorphic adenoma.

POSTOPERATIVE DIAGNOSIS:

Left pleomorphic adenoma.

PROCEDURE:

Left superficial parotidectomy with removal of pleomorphic adenoma with dissection and preservation of the facial nerve.

FINDINGS:

1. Well-encapsulated mass in the anterior portion of the lateral lobe.
2. Facial nerve completely dissected, clean without any abnormality, stimulated well at the end of the case.

PROCEDURE:

After induction of general endotracheal anesthesia, the table was turned 180 degrees, and the left side of the face and neck were prepped and draped in the usual fashion. We made a modification of the Blair incision where we went into the pre-auricular sulcus but then went back up over the mastoid tip in a facelift-type of incision to prevent dropping the limb down. The incision was then made through skin and subcutaneous tissues, and following that, we went ahead and elevated flaps in the fat plane between the skin in the parotid fascia. Once the skin flaps were elevated, we began dissecting in the pre-auricular area. First we dissected down the external auditory canal cartilage into the region of the tragal pointer. Once that was dissected, we then turned posteriorly and went back to the mastoid tip, elevating the fascia and soft tissues above the mastoid tip until we identified the anterior border of the sternocleidomastoid muscle. Once that was accomplished, we dissected inferiorly, cutting the great auricular nerve until we reached the area into the region inferior to the tail of the parotid. We then turned back towards the area of the tragal pointer and dissected in the area that was just beneath the tympanomastoid suture. In this region, we identified the main trunk of the facial nerve.

USC UNIVERSITY HOSPITAL
1500 San Pablo Street
Los Angeles, CA 90033

MR# [REDACTED]
ACCOUNT #: [REDACTED]
386199 Dennis Maceri, M.D. 01/06/2009

OPERATIVE REPORT

It was stimulated with 0.5 milliamps.

After the main trunk was dissected, we went ahead and traced it out and sequentially identified, dissected, and preserved all branches of the facial nerve, starting with the cervical, marginal mandibular, and zygomaticotemporal. There was a small branch coming out just past the pes. It went right into the region of the tumor. It had to be sacrificed, but it most likely represented an arcade. As we worked from inferior to superior, we had the tumor constantly in our field of vision and into palpation, and as we elevated the superficial lobe of the parotid, each branch was dissected out. As we got around anteriorly, the tumor was actually a little larger and a little more anteriorly based than I had originally appreciated. It was actually laying on a part of masseter muscle fascia. This was completely cleaned, and we finally, after dissecting out the zygomatic temporal branch, were able to remove the soft tissues with Harmonic Scalpel. All of the dissection was carried out with Harmonic Scalpel and bipolar cautery. Ligature clips were used where necessary for hemostasis. Once we separated the entire lateral lobe, hemostasis was obtained with bipolar cautery and ligature clips. The wound was irrigated with saline. The nerve was stimulated 1 more time at 0.5 milliamps with all branches responding appropriately, and we then went ahead and sprayed Tisseel spray into the into the wound. We then took a piece of thick AlloDerm, 4 x 7 cm, and placed it on the portion of the facial nerve and _____ and rolled up a portion of it to fit into the sulcus was created in the anterior part of the sternocleidomastoid muscle. With that complete, we began the closure. The pre-auricular area was closed by first putting a deep layer of interrupted 5-0 Vicryl followed by interrupted 6-0 nylon in the pretragal area and in the region of the lobule. Then 5-0 nylon interrupted was used in the posterior part. A large mastoid pressure dressing was applied. Sponge and needle counts were correct. Blood loss was approximately 150 mL. He received approximately 1500 mL of crystalloid solution. The patient was then awakened, extubated, and transferred to the recovery room with stable vital signs.

Dennis Maceri, M.D.

dATE _____ TIME _____

Dictated by: Dennis Maceri, M.D.

pre

D: 01/06/2009 2:28 P

USC UNIVERSITY HOSPITAL
1500 San Pablo Street
Los Angeles, CA 90033

MR# _____
ACCOUNT #: _____
386199 Dennis Maceri, M.D. 01/06/2009

OPERATIVE REPORT

T: 01/06/2009 6:00 P

J: [REDACTED]

CC: Dennis Maceri, M.D.

USC UNIVERSITY HOSPITAL
1500 San Pablo Street
Los Angeles, CA 90033

[REDACTED]

MR# [REDACTED]

ACCOUNT #: [REDACTED]

386199 Dennis Maceri, M.D. 01/06/2009

OPERATIVE REPORT

Page 3 of 3

Authenticated by DENNIS MACERI, M.D. On 1/12/09 8:33:22 AM

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Exhibit 34

USC UNIVERSITY HOSPITAL
GENERAL IOM POLICIES

DEPARTMENT:	NEUROPHYSIOLOGY	POLICY #:	9-107			
SUBJECT:	INTRA-OP MONITORING – GENERAL POLICIES	EFFECTIVE DATE:	01/01/2008			
		REVISED DATE:				
		AUTHORIZED APPROVAL:				
PERSONNEL COVERED:	NEUROPHYSIOLOGY STAFF	PAGE:	1	OF	8	

PURPOSE

To ensure the standard of practice for intraoperative monitoring for all procedures is followed.

DEFINITION

Intraoperative Monitoring (IOM) is a set of tests that measure central and peripheral nervous system function during a surgical procedure. For these tests needle electrodes are placed in the scalp, neck, and extremities for recording and stimulation. During these tests waveforms are digitally acquired and recorded. These waveforms are then monitored to assess neurological function.

GENERAL POLICY- IOM USE

1. To perform these tests, a physician's order is required.
2. Only qualified technical personnel may perform the tests.
3. All technical personnel must be under supervision by the IOM supervisor and an IOM physician.

GENERAL IOM PROCEDURE FOR ALL TECHNICAL PERSONNEL

1. Arrive to the case at least 15 minutes prior to the scheduled start time and place the computer system to allow for direct connection to the network for remote monitoring. When necessary, patient history and physical can be obtained in pre-op.
2. Before each case, there should be a good understanding of the neural pathway at risk and the appropriate monitoring modalities to use to monitor that case. However, one should always *ASK THE SURGEON* which structures are at risk and if needed, modify one of the existing protocols to include these structures. When possible always include a level above as a control, the level of interest and a level below the neural structure at risk during this particular operation. Whenever there is a doubt about what areas to monitor have the IOM supervisor or physician involved.
3. One should confer with anesthesia as to the suggested protocol needed for optimal monitoring. If there is a question as to what to monitor please contact the IOM supervisor or physician.
4. Only disposable needle electrodes should be used. Placement of all needle electrodes must be done after patient induction, either during or immediately following patient intubation.
5. One should log relevant events and communications with the surgeon including the surgeons response when applicable. Also, include relevant physiological variables (e.g. blood pressure, temperature), anesthetic agents and levels during the different stages of the procedure or when changes in the waveforms are seen.

UNIVERSITY HOSPITAL
OPERATING POLICIES

DEPARTMENT:	NEUROPHYSIOLOGY	POLICY #:	9-107			
SUBJECT:	INTRA-OP MONITORING – GENERAL POLICIES	EFFECTIVE DATE:	01/01/2008			
		REVISED DATE:				
		PAGE	2	OF	8	

6. Establishing baselines;
 - A. Baseline values should be established after induction has been complete.
 - B. Baseline values should be re-established or changed as needed, for example, after exposure or when depth of anesthesia changes.
 - C. Any limitations or deficits found in the baseline data should be discussed with the IOM supervisor or physician and then the surgeons notified of any monitoring limitations.
7. When monitoring SSEPs maintain inhaled agents at 0.5 MAC up to 1.0 MAC .
For MEPs, a minimum of 3-4 twitches are needed to obtain a response. Maintain inhaled agents at 0.5 MAC or less (see table).
8. If monitoring EMG one should have at least 4 twitches. Document either “no muscle relaxant given since induction” or number of twitches.
9. Always contact the IOM supervisor or physician when a significant event occurs.
10. Remove all electrodes before the patient awakes. Dispose all needle electrodes in the appropriate sharp waste containers.
11. Place billing and reports into the neurophysiology box within 3 hours after the case.
12. A report should be submitted 72 hours after the case.

EQUIPMENT USE AND MAINTENANCE

All medical equipment used in IOM is maintained in an appropriate and safe manner in compliance with all Keck USC Hospital policies as well as with all manufacturer recommendations. All equipment must receive yearly Electrical Safety Inspections which are done by the Keck USC Biomedical department

Specific Equipment Responsibilities for the Cadwell Elite IOM system and Medtronic NIM system :

1. IOM technologist will perform routine cleaning, minor repair, part replacement, troubleshooting, software upgrades, and data archiving.
2. Vendor (Cadwell and Medtronic) performs annual PM as per the service contract.
3. Biomedical personnel will do an annual electrical safety inspection, certification of electrical safety, and maintain all records of such inspections

UNIVERSITY HOSPITAL
OPERATING POLICIES

DEPARTMENT:	NEUROPHYSIOLOGY	POLICY #:	9-107		
SUBJECT:	INTRA-OP MONITORING – GENERAL POLICIES	EFFECTIVE DATE:	01/01/2008		
		REVISED DATE:			
		PAGE	3	OF	8

SPECIFIC IOM POLICIES

A. Staffing policies

1. All new IOM technologists must pass through an initial orientation and training period before being granted IOM privileges. This period includes a general orientation for all new Keck USC employees, fire safety training, IT and Kronos access, and general OR orientation and supervision by the IOM Supervisor and Medical Director. The duration of the training period will be determined by the IOM Supervisor and Medical Director, and will vary depending on the experience and skill level of the technologist.
2. All privileges and performance is reviewed annually by the IOM Supervisor and Medical Director.
3. One IOM technologist will be on-call at all times unless excused by the IOM Supervisor, in which case a back up on-call technologist will be arranged.
4. The use of a per-diem IOM technologist will be determined by the IOM Supervisor and Medical Director, however, per-diem employees are not to take on-call responsibilities.

UNIVERSITY HOSPITAL
OPERATING POLICIES

DEPARTMENT:	NEUROPHYSIOLOGY	POLICY #:	9-107		
SUBJECT:	INTRA-OP MONITORING – GENERAL POLICIES	EFFECTIVE DATE:	01/01/2008		
		REVISED DATE:			
		PAGE	4	OF	8

B. Interpretation policy (include information on who interprets, when they interpret, and on report generation)

EMG Interpretation- For all lumbar cases, EMG monitoring should be provided. Strict clinical interpretation of significant activity should be referred to the IOM physician. However IOM personnel should communicate to the surgeon all activity that is considered significant.

Significant EMG activity includes the following (**See TABLE 4**);

- A. EMG bursts that are closely correlated with manipulation of neural structures.
- B. Onset of trains of firing at the time of manipulation of neural structures.
- C. Increase in intensity of EMG trains at the time of manipulation.
- D. Bursts of activity at the time of pedicle hole drilling.
- E. Myokymic potentials which usually signify injury to the associated nerve.

EMG activity that is not likely to be significant;

- A. Continuous low-level firing uncorrelated to surgical activity.
- B. EMG activity correlated to irrigation
- C. Abnormal spontaneous activity such as fibrillations and positive waves.

TcMEP Interpretation and Troubleshooting- Strict clinical interpretation of TcMEPs should be referred to the IOM physician. However IOM personnel should communicate to the surgeon all findings that are considered significant.

- A. Anesthetics- All TcMEP procedures should ideally be done using a TIVA protocol. However, in practice, moderate use of inhalational agent can be tolerated (up to 0.5 MAC). The use of inhalational agent has a strong suppression of all TcMEP responses, and can introduce significant variability of all responses throughout the surgical procedure.
 - 1) Inhalational agents- a strong dose dependent suppression.
 - 2) Neuromuscular agents- generally used for intubation, remind the anesthesia staff that, ideally, only a small bolus should be used with a short acting time course. The important factor is that baseline responses cannot be obtained until the initial bolus has been metabolized. Occasionally, muscle relaxant will be necessary during the procedure, always document this.
- B. Stimulation troubleshooting
 - 1) Always check both stimulation polarities for all recording montages.
 - 2) Check and adjust the position of the electrodes if necessary.
 - 3) Increase the stimulus by adjusting both the amplitude and varying the number of pulses and pulse interval.
- C. Recording troubleshooting
 - 1) Has the anesthetic been altered during the procedure? There is a tendency to accumulate with hypothermia, ischemia, elderly, high infusion rates, and long surgeries. Check muscle relaxation using both anesthesia monitoring and TOF monitoring at the hand.
 - 2) Are there intact control responses, if appropriate?
 - 3) Is there a stimulus train artifact present in the recordings?
- D. Loss of signal troubleshooting
 - 1) What is the quality of the signal earlier, amplitude, level of stimulus?
 - 2) What confounding factors are present, noise, anesthesia?
 - 3) What is the rate of change, gradual or suddenly.

UNIVERSITY HOSPITAL
OPERATING POLICIES

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SUBJECT:	INTRA-OP MONITORING – GENERAL POLICIES	EFFECTIVE DATE:	01/01/2008			
		REVISED DATE:				
		PAGE	5	OF	8	

- 4) Are there correlations to surgical manipulations?
- 5) Does the change correlate with SSEP changes?

ALARM CRITERIA

These alarm criteria are dependent upon a number of factors. These include 1) response variability, 2) anesthetic usage, 3) the presence or absence of pre-existing neurologic injury, 4) the rate of response change, and 5) surgical events at the time of change. These criteria must be taken into account when intervention is a consideration.

SSEP MONITORING

	AMPLITUDE CHANGE	LATENCY CHANGE	RESPONSE
LEVEL 1	Decreased up to 30%	increased up to 5%	Minor fluctuation No warning to the surgeon No intervention needed
LEVEL 2	Decreased 30-50%	increased 5- 10%	Warning to surgeon of mild adverse changes may be necessary, consult with the IOM physician if needed Intervention optional
LEVEL 3	Decreased 50-75%	increased 10-20%	Warning to the surgeon of moderate degree of adverse change Intervention desirable
LEVEL 4	Decreased greater than 75%	increased greater than 20%	Warning to the surgeon of severe adverse change Intervention necessary

TCMEP MONITORING

	AMPLITUDE CHANGE	THRESHOLD CHANGE	RESPONSE
LEVEL 1	Decreased up to 30-50%		Minor fluctuation No warning to the surgeon No intervention needed
LEVEL 2	Decreased 50-85%		Warning to surgeon of mild adverse changes may be necessary, consult with the IOM physician if needed Intervention optional
LEVEL 3	Decreased greater than 85%	Greater than 100mV	Warning to the surgeon of severe adverse change Intervention necessary

UNIVERSITY HOSPITAL
OPERATING POLICIES

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SUBJECT:	INTRA-OP MONITORING – GENERAL POLICIES	EFFECTIVE DATE:	01/01/2008			
		REVISED DATE:				
		PAGE	6	OF	8	

C. Infection control

1. Sterile areas should always be respected and non-sterile personnel should minimize their activity around those areas.
2. Proper surgical attire should be worn, including scrubs, hat, mask, appropriate eye care and shoe covers.
3. Neuromonitors and ancillary equipment such as cables and the electrode jackbox should be cleaned with a high-level disinfectant after each case
4. All equipment used in the OR should be properly isolated electrically and protected in from contamination or exposure to body fluids.
5. Gloves should be routinely worn in high-risk areas such as the ICU and OR arenas, particularly when touching patients with wounds, bloody areas, and other secretions or excretions present. Gloves should also be worn when handling any neuromonitoring item soiled by bodily fluids (e. g., electrodes, patient cables). Disposable, subdermal, needle electrodes when used should be disposed in the appropriate manner for sharp objects.
6. Reusable, needle electrodes should be washed, soaked in Clorox (1:10 solution) for 10-15 minute, packaged, and taken to sterile processing for steam sterilization.
7. Intraoperative neuromonitoring personnel should adhere to standard precautions which guard against the risk of accidental exposure to blood and body fluids, and be informed about contraction of and inoculation against Hepatitis B.

UNIVERSITY HOSPITAL
OPERATING POLICIES

DEPARTMENT:	NEUROPHYSIOLOGY	POLICY #:	9-107			
SUBJECT:	INTRA-OP MONITORING – GENERAL POLICIES	EFFECTIVE DATE:	01/01/2008			
		REVISED DATE:				
		PAGE	7	OF	8	

D. Electrical safety

Evaluation of leakage current and inspection of the overall electrical integrity of the equipment should be completed 2-3 times a year (or as per the biomedical engineering protocol at your institution), or at any time faulty or malfunctioning equipment is suspected. All electrodes used in the O.R. must comply with Subclause 56.3 (c) of the International Electrotechnical Commission (IEC) standard 6 (Federal Register 1997). The 1.5 mm or 1.0 mm covered connector electrode (DIN safety connectors or female electrode) meets this standard.

E. Quality improvement

The Hospital Leadership has adopted the methodology P.D.C.A. model for performance improvement. P.D.C.A. is the acronym for **Plan Do Check Act** and DMAIC (Define, Measure, Analyze, Improve and Control) lean processes. Communication is open and dynamic on a daily basis. We have weekly lab meetings to discuss any notable performance issues on our IOM service and any improvement suggestions. Biweekly educational seminars provide quality improvement on the topics discussed. Annual performance reviews of all personnel provide individualized areas to improve.

F. Continuing education for staff

We have established a biweekly educational seminar on various IOM topics. These topics include neurosurgical procedures including instrumentation, techniques and anatomy, clinical neurophysiology topics sourced from various relevant journals, recently published clinical IOM studies, and other various technical IOM topics. These educational seminars will be 0.5 hours per seminar, and so one hour total per month, and will be documented on a log with time, date and topic of discussion. These hours will be used for continuing education hours for CNIM personnel.

Occasionally our personnel will attend regional and national meetings which include Cadwell IOM workshops, WSET, ASET, ASNM, ACNS meetings and others. Generally these meetings provide 10-15 continuing education units which can be applied toward CNIM re-certification.

Other forms of continuing education include direct OR training by the technical and/or the medical director on various new or developing IOM monitoring techniques and/or new surgical approaches. Some examples include, APS (aperiodic stimulation) monitoring of the spinal accessory nerve during radical neck dissections, facial nerve anastomoses, direct brainstem recording of the cochlear nucleus, etc.

G. Training for new equipment

This is accomplished by didactic in-office training by equipment representatives or by using manuals. We use hands-on training in the OR by equipment representatives or by the technical director.

UNIVERSITY HOSPITAL
OPERATING POLICIES

DEPARTMENT:	NEUROPHYSIOLOGY	POLICY #:	9-107		
SUBJECT:	INTRA-OP MONITORING – GENERAL POLICIES	EFFECTIVE DATE:	01/01/2008		
		REVISED DATE:			
		PAGE	8	OF	8

H. Training for new types of surgeries/types of monitoring

Direct training in the OR is performed by the technical and/or the medical director on various new or developing IOM monitoring techniques and/or new surgical approaches. Some examples include, APS (aperiodic stimulation) monitoring of the spinal accessory nerve during radical neck dissections, facial nerve anastomoses, direct brainstem recording of the cochlear nucleus, etc.

I. Emergency coverage

We have three full time technologists who rotate call weeks to cover emergency add-on cases throughout the week and on weekends. If more personnel are required we use per-diem technologists and third-party monitoring companies which we are contracted with.

J. Policy on record retention

We store our physical records in secure file cabinets stored onsite for at least five years and then they are moved to an outside storage facility by Keck Hospital. Our digital records are downloaded from data acquisition systems daily, and they are backed up weekly into a dedicated network drive that is on our secure Keck Hospital intranet server.

Effective/Revision Dates for Policy # <insert policy number>

Effective: 06/28/05 PIC
Revised: 01/01/08
(reviewed)

Keywords: IOM, ABR, SSEP, MEP, TcMEP, EMG

Exhibit 35



USC University Hospital Intraoperative Neurophysiology

1500 San Pablo St. Suite 2500. Los Angeles, CA 90033 (323) 442-8852

EVENT LOG

Time	Text
07:47:58	pt in the room
08:15:28	bite block placed
08:19:31	dr Hsiieh asked about baseline " we have uppers and lowers ssep
08:29:19	pt still under muscle relaxed
08:53:21	Begin Incision
08:57:41	bp 143/90, hr 101
09:09:44	mep baseline uppers ok lowers mep very small
09:14:32	exposure
09:38:38	Corpectomy (continued)
09:42:45	dr Hsieh requested mep " we have mep"
09:50:37	drilling
09:50:42	bis is on
10:09:01	drilling
10:10:46	checking mep by surgeon requested " mep done"
11:06:42	still drilling
11:35:23	left lower mep very very small
11:40:48	Stored Impedance
11:41:04	bone graft
11:48:14	Stored Impedance
11:55:03	call Chris reported mep changes in the left hand and left foot
11:55:37	Chris reported to dr Hsieh
11:57:32	placing screw
12:23:35	Closing
12:26:06	Stored Impedance
12:26:20	surgeon performing wake test
12:47:36	flip pt
12:57:50	posterior repositioning; gas @ 1.2 %
13:24:44	exposure
13:50:56	Chris just left the room
14:03:15	drilling
14:06:28	laminectomy
14:33:25	bis is off
14:38:24	Screws in
14:39:47	Begin Placing Rods
14:49:45	Draining, anest increasing gas
14:57:23	Closing

ACCOUNT#
MR#



USC University Hospital
Intraoperative Neurophysiology

1500 San Pablo St. Suite 2500. Los Angeles, CA 90033 (323) 442-8852

DATE OF STUDY: 1/27/2009

STUDY #: UH09-46

REFERRING PHYSICIAN: Patrick Hsieh, M.D.

PATIENT HISTORY: This patient is a 41 year old female with cervical spondylosis and stenosis.

MONITORING MODALITIES: upper limb somatosensory evoked potentials, (95925) lower limb somatosensory evoked potentials, (95926) upper limb transcranial motor evoked potentials, (95928) lower limb transcranial motor evoked potentials, (95929) free run EMG (95861)

RESULTS: During C4- C5 vertebrectomy, C3 - C6 anterior spinal fusion, C3-C6 laminectomy and posterior spinal fusion the aforementioned modalities were continuously monitored.

The surgeon was informed at baseline that the patient's potentials were difficult to monitor the lower extremity MEP's. During the procedure, amplitude decreases were seen on the left upper and lower extremity MEP.

Free running EMG recording was provided. The OR physicians were promptly made aware of any spontaneous discharges suggesting irritation of any of the relevant nerves.

9 hours were spent monitoring. The surgeons were kept informed of the monitoring status and any significant changes.

IMPRESSION: During the procedure, the potentials showed moderate changes that were persistent.

COMMENTS: The changes seen in the upper and lower extremity motor evoked potentials during the procedure suggest that an interruption of this pathway occurred. Clinical correlation is advised

A handwritten signature in black ink, appearing to read "ANDRES A. GONZALEZ", with a long, sweeping horizontal line extending to the right.

ANDRES A. GONZALEZ, M.D.

Electronic signature 1/29/2009 2:57:54 PM

ACCOUNT#
MR#

EVIDENCE OF INTRAOPERATIVE PATIENT HARM:

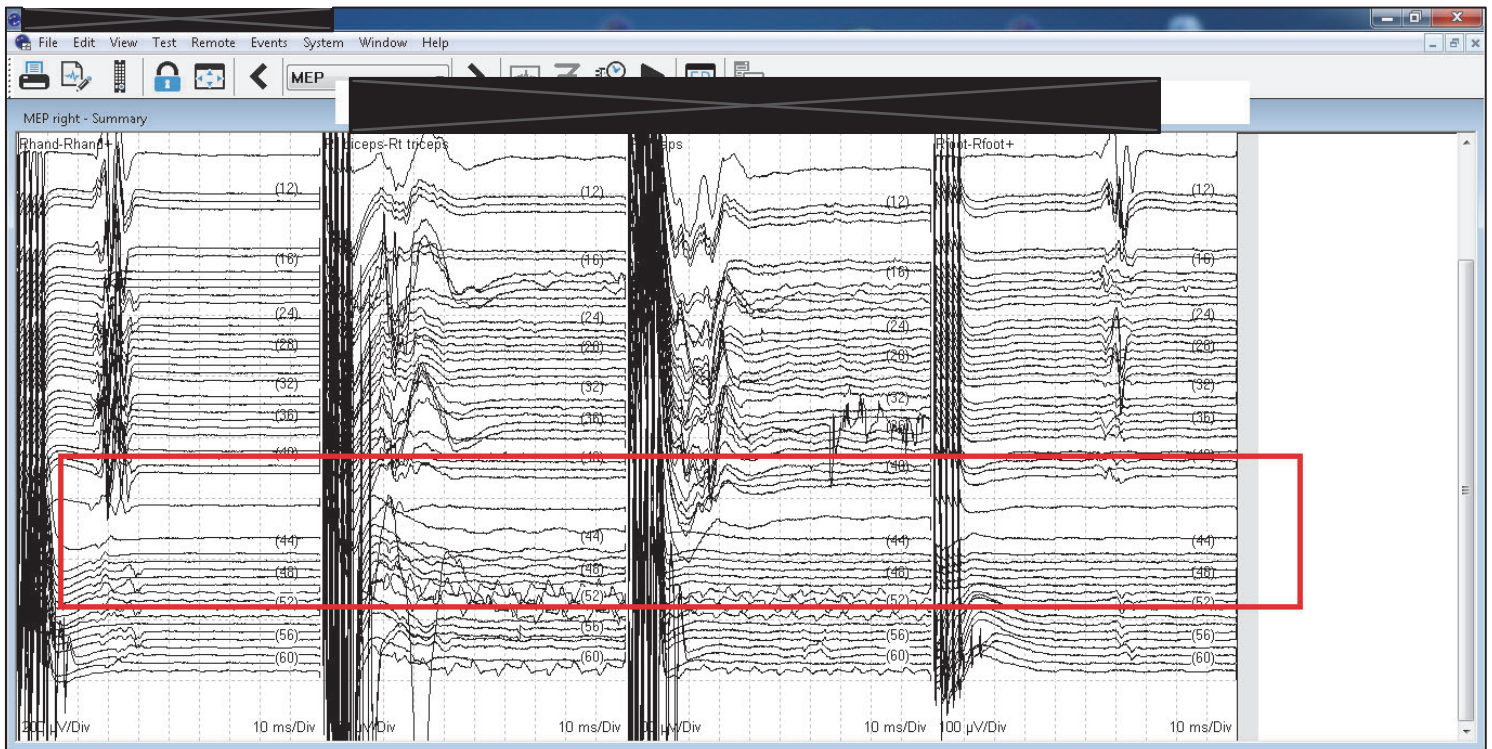
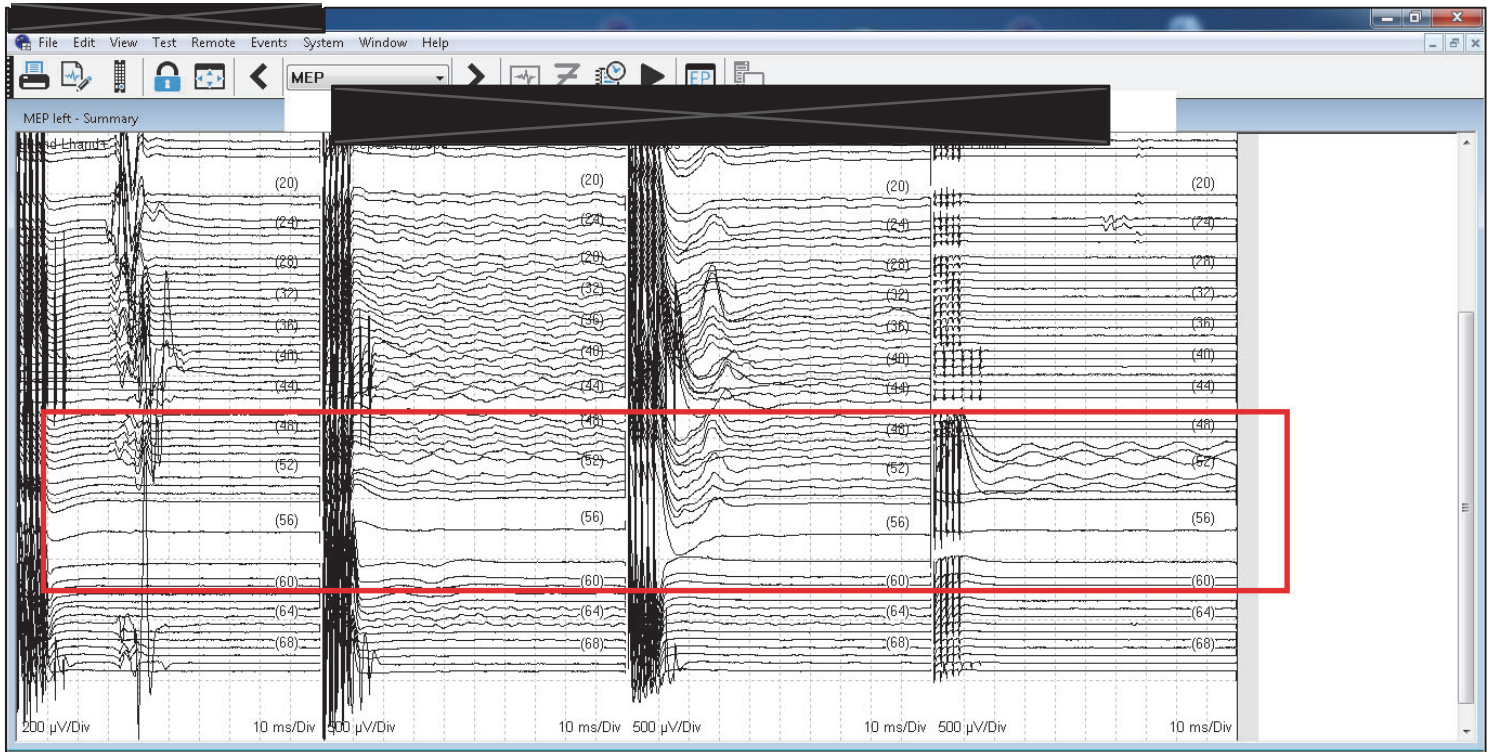
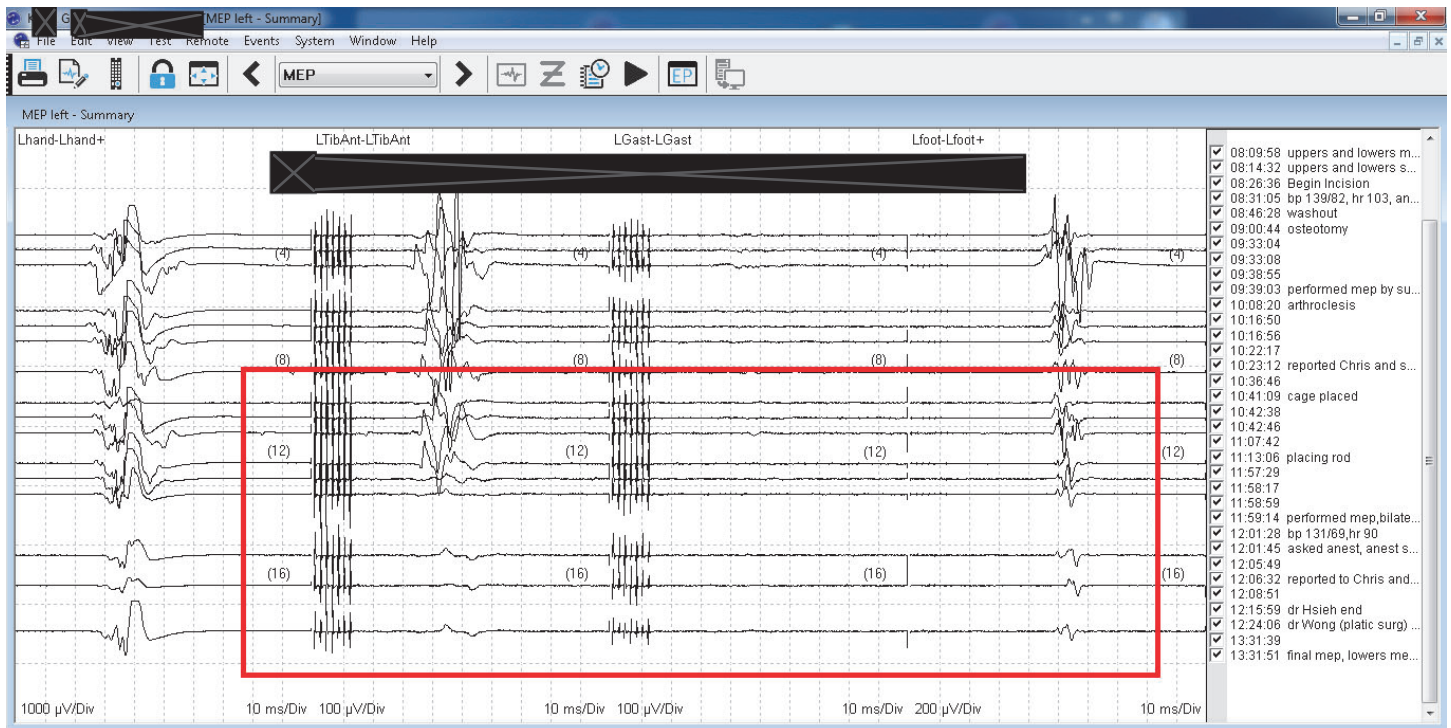
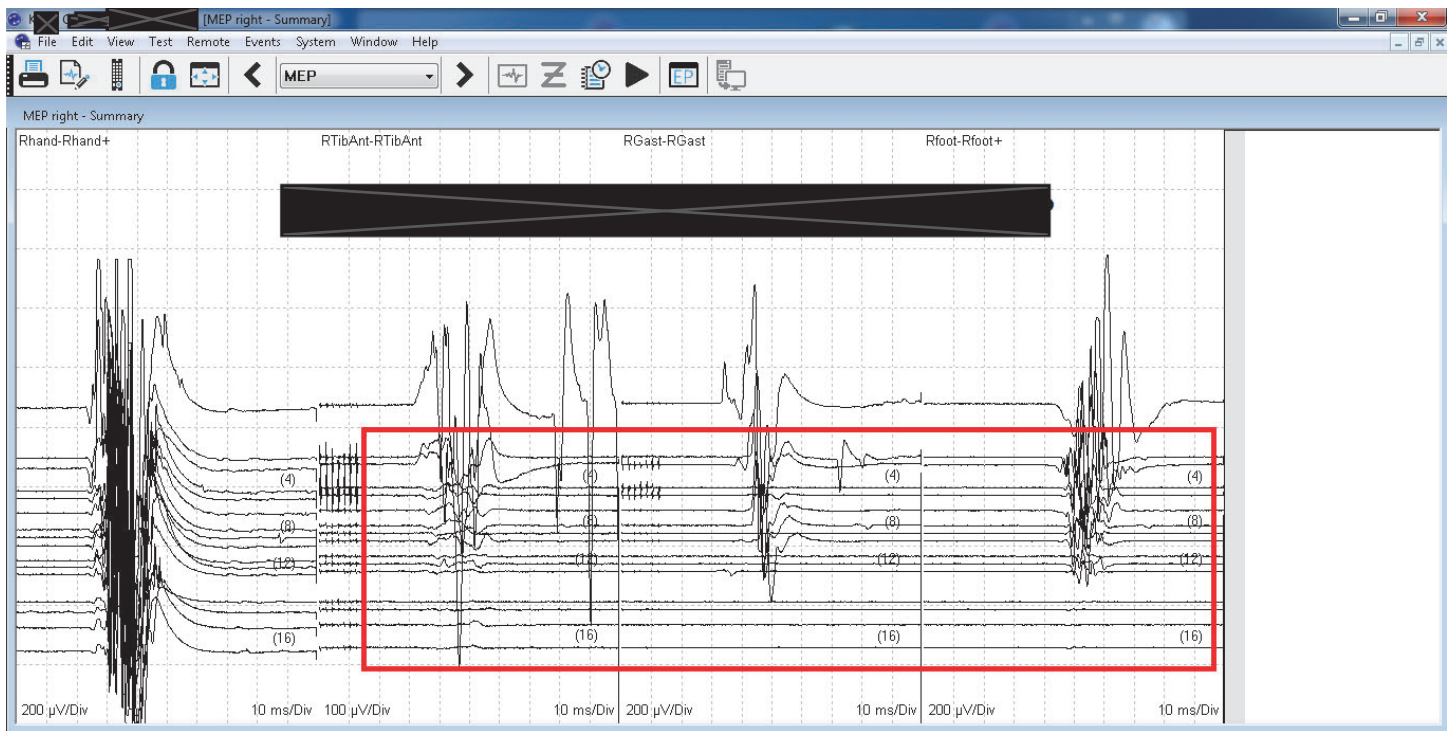


Exhibit 36

Events				
Time	Priority	Text		
7:37:00 AM	Medium	pt in the room		
7:55:30 AM	Medium	bite block in		
8:09:20 AM		Stored Impedance		
8:09:58 AM	Medium	uppers and lowers mep baseline		
8:14:32 AM	Medium	uppers and lowers ssep baseline		
8:26:36 AM	Medium High	Begin Incision		
8:31:05 AM	Medium	bp 139/82, hr 103, anest using tiva		
8:46:28 AM	Medium	washout		
9:00:44 AM	Medium	osteotomy		
9:39:03 AM	Medium	performed mep by surgeon requested		
10:08:20 AM	Medium	arthroclesis		
10:23:12 AM	Medium	reported Chris and surgeon changes on the lowers mep 50%		
10:41:09 AM	Medium	cage placed		
11:13:06 AM	Medium	placing rod		
11:59:14 AM	Medium	performed mep, bilateral lowers mep decreased 70%		
12:01:28 PM	Medium	bp 131/69, hr 90		
12:01:45 PM	Medium	asked anest, anest states no changes on med		
12:06:32 PM	Medium	reported to Chris and surgeon about significant changes on lowers mep, rt foot complete		
12:15:59 PM	Medium	dr Hsieh end		
12:24:06 PM	Medium	dr Wong (platic surg) closing		
13:31:51 PM	Medium	final mep, lowers mep still absent		

Go To
Edit
Print
Delete
Undelete All
Show History
Go To Time
Close







**USC University Hospital
Intraoperative Neurophysiology**

1500 San Pablo St. Suite 2500. Los Angeles, CA 90033 (323) 442-8852

DATE OF STUDY: 4/20/2010

STUDY #: UH 10-197

REFERRING PHYSICIAN: Patrick Hsieh MD/ Wong Alex MD.

MONITORING MODALITIES: upper limb somatosensory evoked potentials, (95925) lower limb somatosensory evoked potentials, (95926) upper limb transcranial motor evoked potentials, (95928) lower limb transcranial motor evoked potentials, (95929) free run EMG (95861)

RESULTS: During L3 pedicle screw osteotomy , T11- L2 Smith Peterson Osteotomy, T10 pelvis fusion and paraspinal muscle flap closure the aforementioned modalities were continuously monitored.

The surgeon was informed at baseline that the patient's potentials were adequate for monitoring bilaterally. During the procedure, these potentials changes in the lower extremities MEPs were seen and reported to the surgeon. Free running EMG recording was provided. The OR physicians were promptly made aware of any spontaneous discharges suggesting irritation of any of the relevant nerves.

7 hours were spent monitoring. The surgeons were kept informed of the monitoring status and any significant changes.

IMPRESSION: During the procedure, the potentials showed severe changes in the bilateral lower motor evoked potentials that were persistent.

COMMENTS: The changes seen in the bilateral lower extremity motor evoked potentials during the procedure suggest that an interruption to this pathway occurred. Clinical correlation is advised.

A handwritten signature in black ink, appearing to read "ANDRES A. GONZALEZ", with a stylized flourish at the end.

ANDRES A GONZALEZ, M.D.

Electronic signature 5/7/2010 10:47:42 AM

MR #
ACCOUNT #

Exhibit 37

Intraoperative Note

* Final Report *

*** Final Report ***

Procedure Date: 8/15/2017

Study #: LAC 17-341

Referring Physician: Mehta, M.D.

Technician: NN/MV

OR#: 20

Patient History: 64-year-old man with over a year of difficulty with using hands, paresthesias in hands, difficulty walking due to imbalance. Has been non-ambulatory for 6 months

Surgical Procedure: C5-C7 ACDF

MONITORING MODALITIES:

SSEPs (somatosensory evoked potentials), TcMEPs (transcranial motor evoked potentials) and free run EMG.

RESULTS:

During the procedure the aforementioned modalities were continuously monitored.

The surgeon was informed at baseline that the patient's potentials amplitudes were adequate for monitoring bilaterally. During discectomy the bilateral hands and feet motor evoked potentials and global sensory evoked potentials were lost. A minimal recovery of responses was seen during closing. 7.25 hours were spent monitoring, and the surgeons were kept informed of the monitoring status and any significant changes.

IMPRESSION:

Somatosensory evoked potentials and Transcranial Motor evoked potentials were continuously monitored during surgery. Bilateral hand and feet motor evoked potentials and global sensory evoked potentials were lost during discectomy with minimal recovery at closing.

Please see comment.

COMMENT: The changes seen in the (upper and lower extremity somatosensory and motor evoked potentials during discectomy suggest that an interruption of this pathway occurred. Clinical correlation is strongly advised.

Further monitoring data is available by contacting the Intraoperative Neurophysiological Monitoring department

Signature Line

Electronically Signed on 08/15/17 17:09 PDT

Vesely, Michael

Operative Report

* Final Report *

general anesthesia, we notified Anesthesia to maintain mean arterial pressures greater than 85 throughout the case. He was then left in the prone position. His neck was slightly extended. The anterior cervical spine was then shaved, prepped, draped in the usual sterile fashion. Fluoroscopy was brought in to confirm the approximate C5-6 level. This area was then shaved, prepped, draped in the usual sterile fashion. We then performed a time-out to confirm correct patient, procedure, site, and side. A dilute solution of lidocaine with epinephrine was injected into the subcutaneous tissue in a horizontal crease at the approximate levels. We then opened the skin with a 10 blade and used Bovie cautery to open down to the platysma. We performed a subplatysmal dissection. We opened the platysma sharply and performed a subplatysmal dissection. We found the medial border of the sternocleidomastoid and dissected down until we were over the prevertebral fascia. Handheld retractors were then placed, and the longus colli were divided in the midline using Bovie cautery and elevated laterally off the spine. Trimline cervical retractors were then placed, and a spinal needle was placed at the approximate C5-6 level. Again, fluoroscopy was used to confirm that we were at the appropriate level. We then opened this disc space using an 11 blade and performed discectomy using a combination of curets and Kerrison. Prior to the discectomy, we noticed a drop in the bilateral lower extremity motors and sensory in bilateral upper extremity, and at this point, mean arterial pressure was driven above 95, and the head was removed from slight extension. We completed the discectomy and found adequate decompression of the thecal sac after removal of the posterior longitudinal ligament. At this time, motor evoked potentials had some mild recovery, but they were still significantly decreased from baseline. At this point, the decision was made to urgently perform a posterior decompression and fusion, given the multiple levels of cervical stenosis. We considered performing an anterior cervical discectomy and fusion at the level below and also considered taking him to MRI to determine which levels were most stenotic. However, given the acute change in findings on neuromonitoring, I felt that his best chance of making a neurologic recovery was a rapid decompression of his central canal. We attempted to reach his family, but were unable to do so, and so emergency 2 physician consent was obtained to proceed with the posterior stage. Of note, I had previously discussed this with the patient, but we had not obtained formal documented consent for this. At this time, an anterior cervical discectomy plate was then placed, and 4 screws were applied. The wound was copiously irrigated, and a 7 flat JP was placed in the wound and tunneled out. We closed the platysmal layer with 2-0 Vicryl pops, the deep dermal layer with 3-0 Vicryl, and the skin with a subcutaneous Biosyn. The dressing was applied. He was then placed in Mayfield head clamp and was turned prone onto a regular OR table with gel rolls. The posterior cervical region was then shaved, prepped, draped in the usual sterile fashion. Again, a time-out was performed indicating that this was an urgent/emergent procedure performed under a 2 physician emergency consent, due to the lack of available family members and due to the impending neurologic injury and need for decompression to prevent neurologic dysfunction and restore any remaining function. The skin was opened in the midline with a 10 blade, and bipolar cautery was used to dissect subperiosteally to expose the lateral masses of the C3 through 6 level, making sure not to violate the C2-3 joint or the C6-7 joint. There was some exposure of the C6-7 joint on the left side. Fluoroscopy was brought in to confirm the appropriate levels. At this point, lateral mass screw starting points were drilled from C3-6. We then performed a wide laminectomy at these levels and obtained a good decompression of the thecal sac. We extended the laminectomy inferiorly to the superior part of the C7 lamina. After we had achieved adequate decompression, we placed lateral mass screws from C3-C6 and connected these with a rod and set screw caps. A crosslink was then placed. The wound was copiously irrigated. The facet joints and lateral masses were then decorticated. Autograft was then harvested from the lamina and placed over the area of the exposed bone. Meticulous hemostasis was then achieved. We then placed a 10 flat JP above the thecal sac and closed the fascia with 0 Vicryl pops, the deep dermal with 2-0 Vicryl pops, and the drain was secured in place using a 3-0 nylon. Following the posterior decompression, there was recovery of the motor and sensory evoked potentials. All sponge and needle counts were correct at the end of the procedure. The patient was returned to the supine position and left intubated, given the concern for high cervical cord level and taken back to the intensive care unit.

Dictated By: Vivek A. Mehta, MD

Vivek A. Mehta, MD

VAM/MODL

JOB #: 967387/753730931

Inpatient Progress Note - Generic

Inpatient Progress Note (Verified)

DATE OF SERVICE:

ATTENDING PHYSICIAN: Vivek A. Mehta, MD

RESIDENT PHYSICIAN: Vivek A. Mehta, MD

HISTORY OF PRESENT ILLNESS: This is a 64-year-old male, who was seen in our clinic last week with severe cervical stenosis and cervical myelopathy, which had progressed to the point where he was no longer ambulatory. His previous attempts at surgery had been delayed due to the fact that he had not cleared Anesthesia for pulmonary issues. He presented to the LA County USC Emergency Department on Sunday for worsening weakness, and we admitted him. We obtained a Pulmonary consult, and he was cleared for the operating room. I discussed with him that due to his severe cervical stenosis, that this was a **high risk surgery** and that the goals would be to prevent worsening and stabilize his symptoms. I explained to him that we would attempt an anterior approach, and he was consented for a C5-6 and C6-7 anterior cervical discectomy and fusion. Prior to the surgery, I explained to him that we may need to also stage this and do a posterior decompression and fusion, based on the degree of decompression we achieved anteriorly. However, prior to going to the operating room, he was not consented for a posterior approach. I will dictate a separate operative note for details of the intraoperative events. Briefly, after exposure of the spine and prior to the discectomy, the patient's motor evoked potentials were found to have **decreased significantly in the bilateral lower extremities and hands**. At this time, we elevated the mean arterial pressures to greater than 95, and he received 20 mg of Decadron. We completed the discectomy for concern that there was ongoing compression at C5-6 and also removed the Caspar pin retractors and took his head out of extension. He had slow return of his motors and sensories. However, they were **not a baseline** by the completion of the C5-6 discectomy. At this point, I made the decision to urgently perform a posterior decompression and fusion, due to the concern that other levels of the cervical stenosis might be contributing to his decline on neuromonitoring. We attempted to reach family and were unsuccessful. Therefore, a **2 physician emergency consent** was obtained due to the immediate and grave risk of prolonged neurologic disability. The posterior approach was performed uneventfully with a decompression and fusion from C3-C6 and a partial laminectomy at C7. Following the posterior decompression, he did start to regain some of his motor evoked and sensory potentials in his bilateral lower extremities that were lost. In the operating room immediately after surgery, he was found to be wiggling his toes and moving his arms and legs. We will keep him intubated in the ICU for airway protection, given the high cervical level of his stenosis. I was able to reach his mother Delores by phone at approximately 6 o'clock p.m. and apprised her of all of the events and that we had to urgently performed the posterior approach without obtaining formal informed consent from him or a family member. I further explained that I had spoken with him about a posterior approach, but that we did not consent him for this for today. I told her that we will keep her updated about his status on a daily basis.

Dictated By: Vivek A. Mehta, MD

Vivek A. Mehta, MD

VAM/MODL

JOB #: 164995/753601225

The screenshot displays the 'External DHS Workforce' application window. The top menu bar includes 'Options', 'Connect USB Device', and 'Send Ctrl-Alt-Delete'. Below this is a toolbar with various icons for tasks like 'Physician Handoff', 'Home', 'Message Center', 'Patient List', 'MyDHS', 'Amion', 'iMedConsent', 'E-Consult', 'Propo', 'Abnor', 'Critic', 'CURES', 'DHS - CCL', 'POLST', 'GoToAssist', 'Tear Off', 'Suspend', 'Charges', 'Exit', 'Calculator', 'AdHoc', 'Specimen Collection', 'PM Conversation', 'Communicate', 'Patient Education', 'Add', 'Patient Pharmacy', 'iAware', and 'Scheduling Appointment Book'.

The main content area is divided into several sections. On the left is a 'Menu' sidebar with options like 'Neurology Workflow', 'Overview', 'Results Review', 'Orders', 'Documentation', 'Task List', 'Allergies', 'Chart Search', 'Clinical Research', 'Diagnosis & Problems', 'Flowsheet and I&O', 'Form Browser', 'Growth Chart', and 'Health Maintenance'. The 'Documentation' section is active, showing a list of 'Coding Summary' entries arranged by date. The selected entry is dated 9/2/2017 16:30:0... and displays the following details:

- Arranged By:** Date
- Coding Summary:** 9/14/2017 23:59...
- Coding Summary:** 9/2/2017 16:30:0...
- Coding Summary:** 8/10/2017 23:59...
- Coding Summary:** 6/30/2017 01:16...
- Coding Summary:** 5/17/2017 23:59...

The right pane shows the following information:

- CODING DATE:** 10/05/2017
- LAC+USC Medical Center**
- FINAL**
- DSCH STATUS:** Skilled Nursing Facility
- PAYOR:** In-Home Supportive Services 39
- Group:** 454 MS-DRG Combined anterior/posterior spinal fusion w CC

The bottom of the screen shows a Windows taskbar with various application icons, including Internet Explorer, Google Chrome, and Microsoft Word.

External DHS Workforce

Options ▾ Connect USB Device ▾ Send Ctrl-Alt-Delete

Task Edit View Patient Chart Links Notifications Options Current Add Help

Physician Handoff Home Message Center Patient List MyDHS Amion iMedConsent E-Consult Propo: 0 Abnor: 0 Criti: 0 CURES DHS - CCL POLST GoToAssist

Tear Off Suspend Charges Exit Calculator AdHoc Specimen Collection PM Conversation Communicate Patient Education Add Patient Pharmacy iAware Scheduling Appointment Book

Attending: [REDACTED] DOB: [REDACTED] Age: 65 years Code Status: N/A MRN: [REDACTED]
Allergies: tetanus toxoid Hold Status: N/A Sex: Male Dosing Wt: 91.000 kg (08/13/2017) FIN: [REDACTED]
Care Team: <No Primary Contact> Isolation: N/A Emp Prov: Khan, Tahir Mahmood Loc 6A: 136; A

Menu

- Neurology Workflow
- Overview
- Results Review
- Orders + Add
- Documentation + Add
- Task List
- Allergies + Add
- Chart Search
- Clinical Research
- Diagnosis & Problems
- Flowsheet and I&O
- Form Browser
- Growth Chart
- Health Maintenance

Orders

Full screen Print 0 minutes ago

Reconciliation Status
✓ Meds History Admission ✓ Discharge

Orders Medication List Document In Plan

Displayed: All Active Orders | All Inactive Orders | All Orders (All Statuses) Show More Orders...

	Order Name	Status	Dose ...	Details	Ord...	Ordering Physician
Procedures						
Inactive						
	95938 Short-Latency Somatosensory Evoked Po...	Completed	08/15/17 17:11:00 PDT			Gonzalez, Andres A.
	95939 Central Motor Evoked Potential (MEP) St...	Completed	08/15/17 17:11:00 PDT			Gonzalez, Andres A.
	95940 - Continuous IONM (personal)	Completed	08/15/17 17:11:00 PDT, Q15...			Gonzalez, Andres A.
	95861 Electromyography (EMG), 2 Extremities	Completed	08/15/17 17:11:00 PDT			Gonzalez, Andres A.
Special						
Inactive						
	Fall Risk Protocol (Fall Precautions)	Discontinued	08/13/17 19:01:03 PDT	Con	Ord	SYSTEM, SYSTEM Center
Details						

Related Results

Dx Table Orders For Cosignature Orders For Nurse Review Orders For Signature

Windows taskbar: Welcome to Cer..., PowerChart Orga..., [REDACTED], [REDACTED]

External DHS Workforce

Options ▾ Connect USB Device ▾ Send Ctrl-Alt-Delete

Task View Help

Original order entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.
Ambulatory Procedures Department
95940- Continuous IONM (personal)

Details Additional Info History Comments Validation Results Ingredients Pharmacy

Details

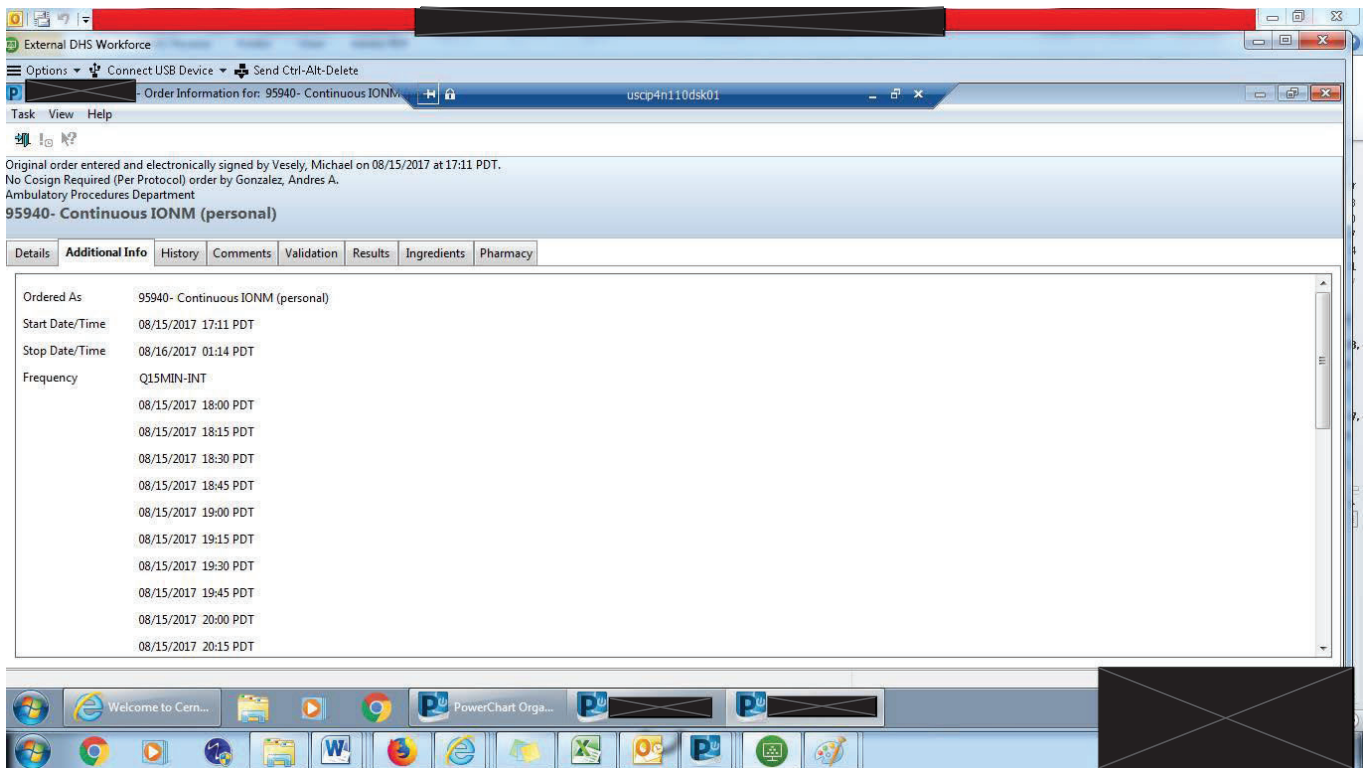
Requested Start Date/Time

Completed by Nurse?

Frequency

Duration

Duration Unit



The screenshot displays the 'External DHS Workforce' application window. The title bar includes 'Options', 'Connect USB Device', and 'Send Ctrl-Alt-Delete'. The address bar shows 'uscip4n110dsk01'. The main content area displays order information for '95940- Continuous IONM (personal)'. The order was entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT. It is a 'No Cosign Required (Per Protocol) order by Gonzalez, Andres A.' from the 'Ambulatory Procedures Department'. The order details are as follows:

Ordered As	95940- Continuous IONM (personal)
Start Date/Time	08/15/2017 17:11 PDT
Stop Date/Time	08/16/2017 01:14 PDT
Frequency	Q15MIN-INT
	08/15/2017 18:00 PDT
	08/15/2017 18:15 PDT
	08/15/2017 18:30 PDT
	08/15/2017 18:45 PDT
	08/15/2017 19:00 PDT
	08/15/2017 19:15 PDT
	08/15/2017 19:30 PDT
	08/15/2017 19:45 PDT
	08/15/2017 20:00 PDT
	08/15/2017 20:15 PDT

The taskbar at the bottom shows various application icons, including Internet Explorer, Google Chrome, and Microsoft Word. A large black redaction box is present in the bottom right corner of the screenshot.

External DHS Workforce

Options ▾ Connect USB Device ▾ Send Ctrl-Alt-Delete

Order Information for: 95940- Continuous IONM

Task View Help

Original order entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.
Ambulatory Procedures Department

95940- Continuous IONM (personal)

Details Additional Info History Comments Validation Results Ingredients Pharmacy

08/15/2017 22:15 PDT
08/15/2017 22:30 PDT
08/15/2017 22:45 PDT
08/15/2017 23:00 PDT
08/15/2017 23:15 PDT
08/15/2017 23:30 PDT
08/15/2017 23:45 PDT
08/16/2017 00:00 PDT
08/16/2017 00:15 PDT
08/16/2017 00:30 PDT
08/16/2017 00:45 PDT
08/16/2017 01:00 PDT

Order ID 2004690657
Department Status Completed

External DHS Workforce

Options ▾ Connect USB Device ▾ Send Ctrl-Alt-Delete

Order Information for: 95940- Continuous IONM

Task View Options Help

Original order entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.
Ambulatory Procedures Department
95940- Continuous IONM (personal)

Details Additional Info **History** Comments Validation Results Ingredients Pharmacy

Status Change 08/16/2017 01:16 PDT
Order 08/15/2017 17:11 PDT

Status Change 08/16/2017 01:16 PDT
Entered and electronically signed by SYSTEM, SYSTEM Cerner on 08/16/2017 at 01:16 PDT.
Ordered by Gonzalez, Andres A.

Status	After	Before
Order Status	Completed	Ordered
Department Status	Completed	Ordered

Details

Order 08/15/2017 17:11 PDT
Entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.

Status

Order Status	Ordered
Department Status	Ordered

Details

Requested Start Date/Time	08/15/2017 17:11 PDT
Completed by Nurse?	No

Welcome to Cern... PowerChart Orga...

External DHS Workforce

Options ▾ Connect USB Device ▾ Send Ctrl-Alt-Delete

Order Information for: 95940- Continuous IONM

Task View Options Help

Original order entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.
Ambulatory Procedures Department
95940- Continuous IONM (personal)

Details Additional Info History Comments Validation Results Ingredients Pharmacy

Status Change 08/16/2017 01:16 PDT
Order 08/15/2017 17:11 PDT

Order Status

Department Status

Details

Order 08/15/2017 17:11 PDT
Entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.

Status

Order Status

Department Status

Details

Requested Start Date/Time

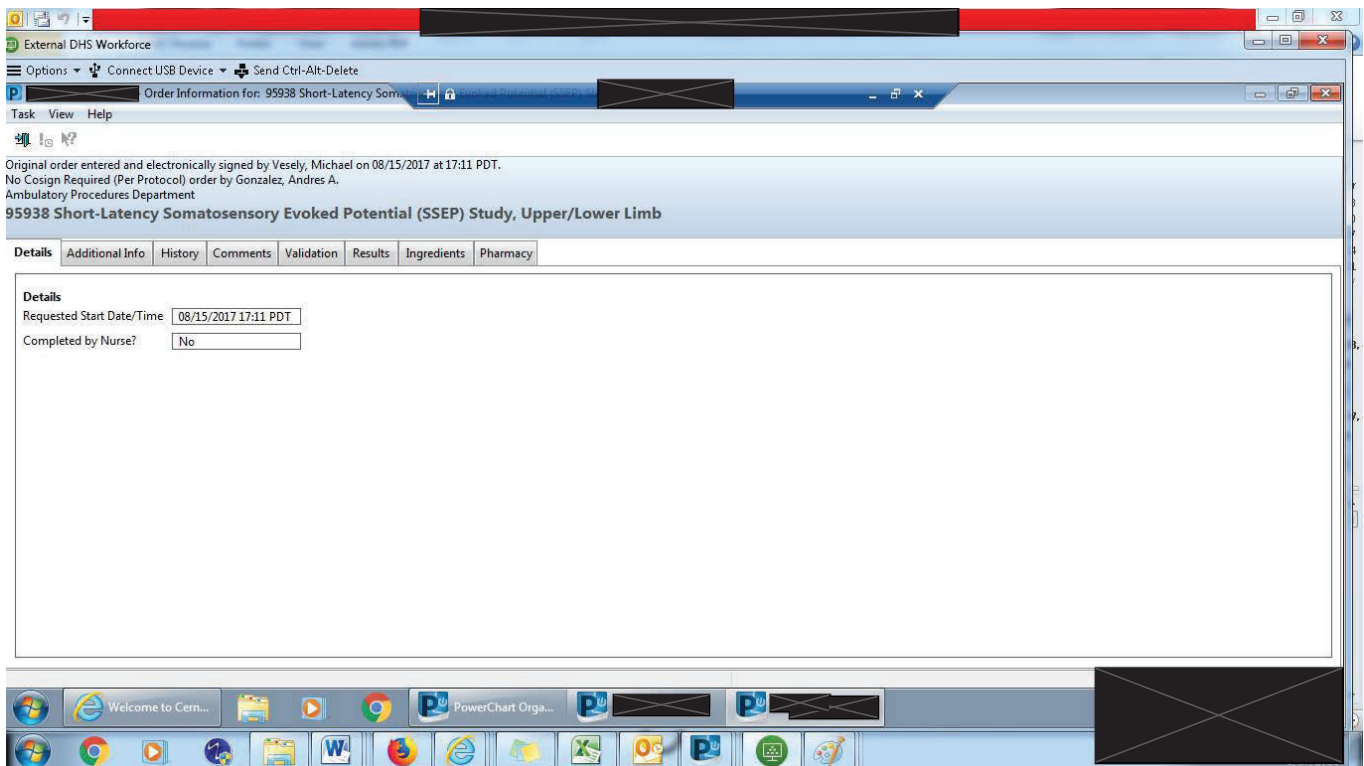
Completed by Nurse?

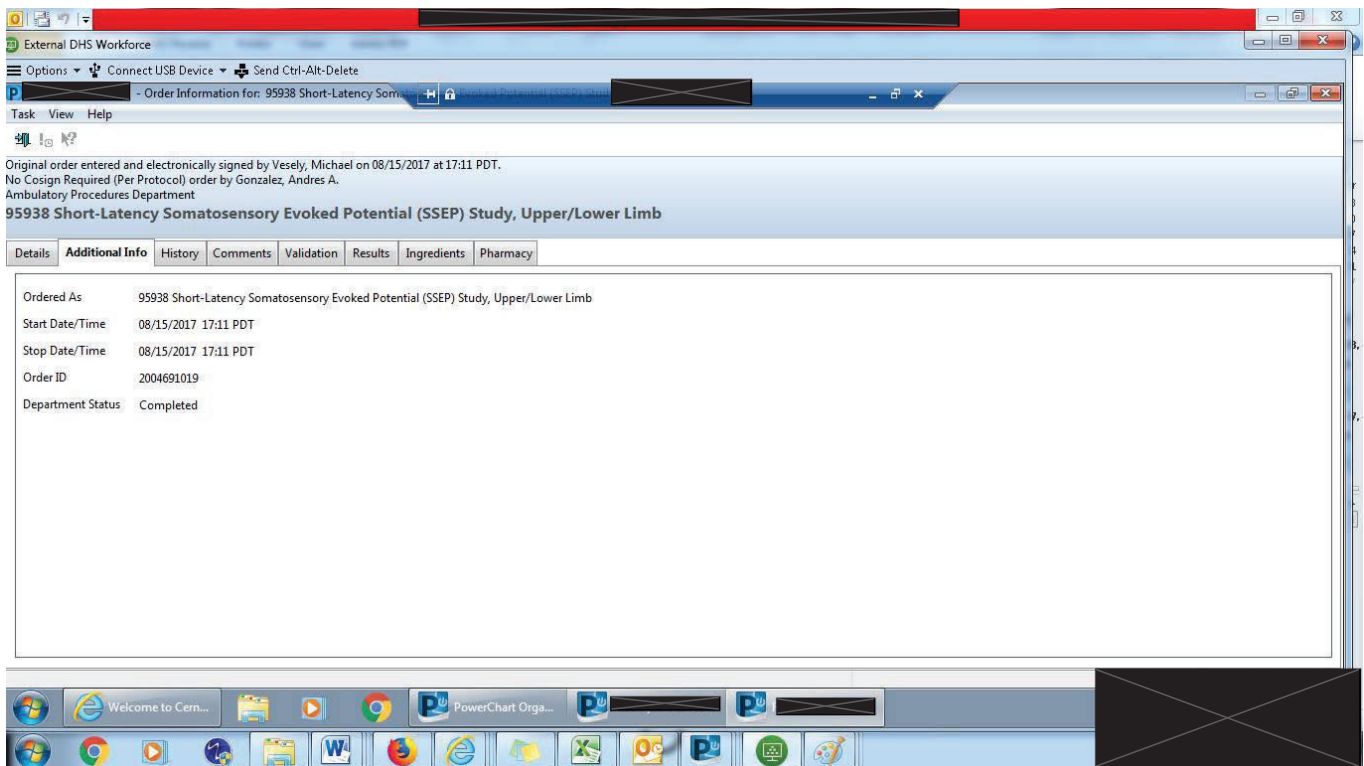
Frequency

Duration

Duration Unit

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External DHS Workforce

Options Connect USB Device Send Ctrl-Alt-Delete

Order Information for: 95938 Short-Latency Som...

Task View Options Help

Original order entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.
Ambulatory Procedures Department

95938 Short-Latency Somatosensory Evoked Potential (SSEP) Study, Upper/Lower Limb

Details Additional Info **History** Comments Validation Results Ingredients Pharmacy

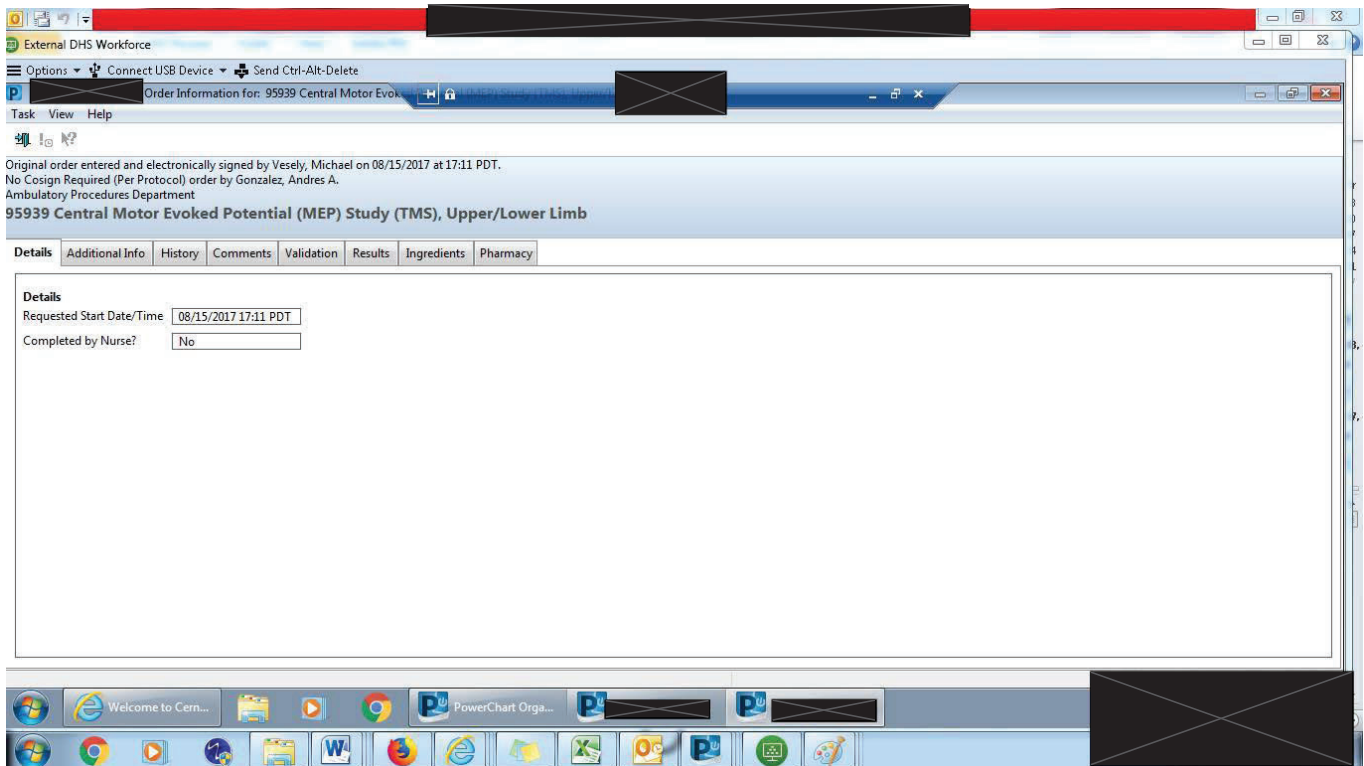
Order 08/15/2017 17:11 PDT

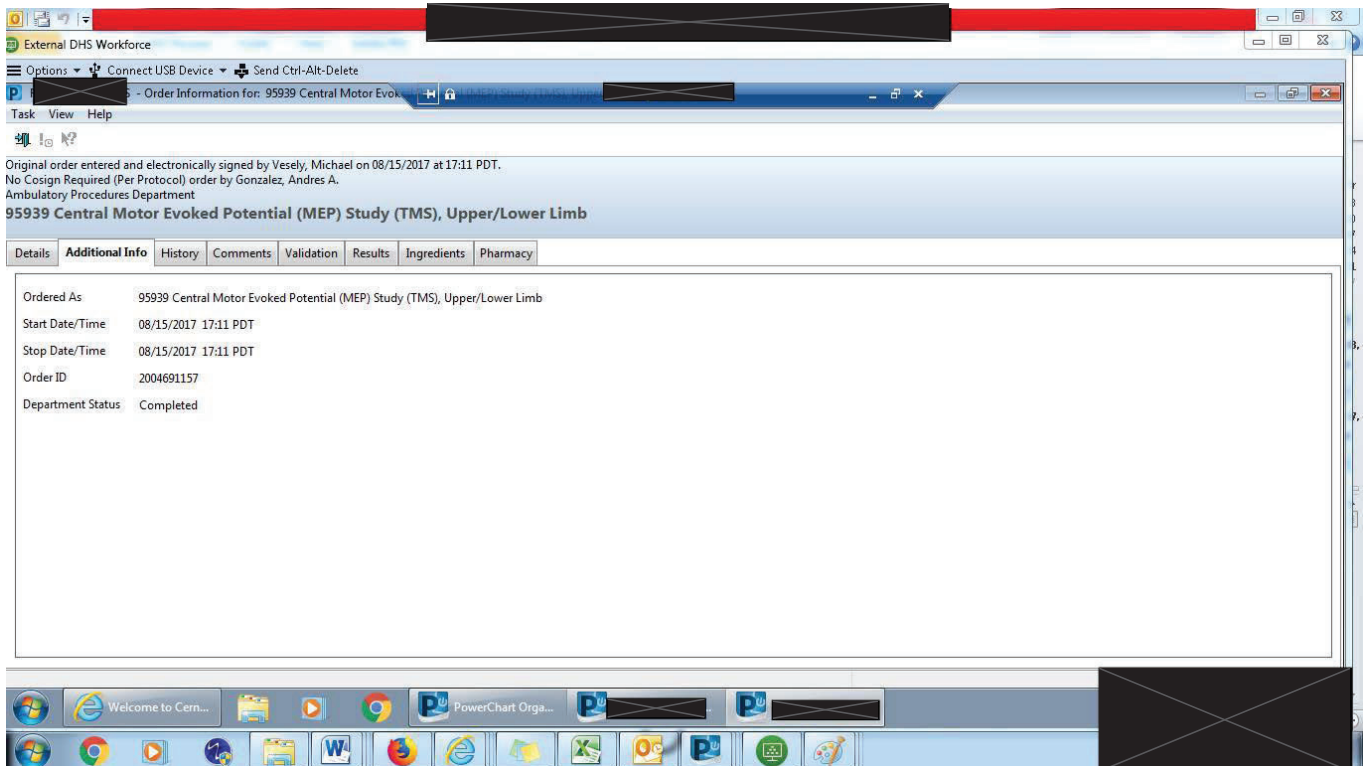
Order 08/15/2017 17:11 PDT
Entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.

Status
Order Status
Department Status

Details
Requested Start Date/Time
Completed by Nurse?

Welcome to Cern... PowerChart Orga...





External DHS Workforce

Options ▾ Connect USB Device ▾ Send Ctrl-Alt-Delete

Task View Options Help

Original order entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.
Ambulatory Procedures Department

95939 Central Motor Evoked Potential (MEP) Study (TMS), Upper/Lower Limb

Details Additional Info **History** Comments Validation Results Ingredients Pharmacy

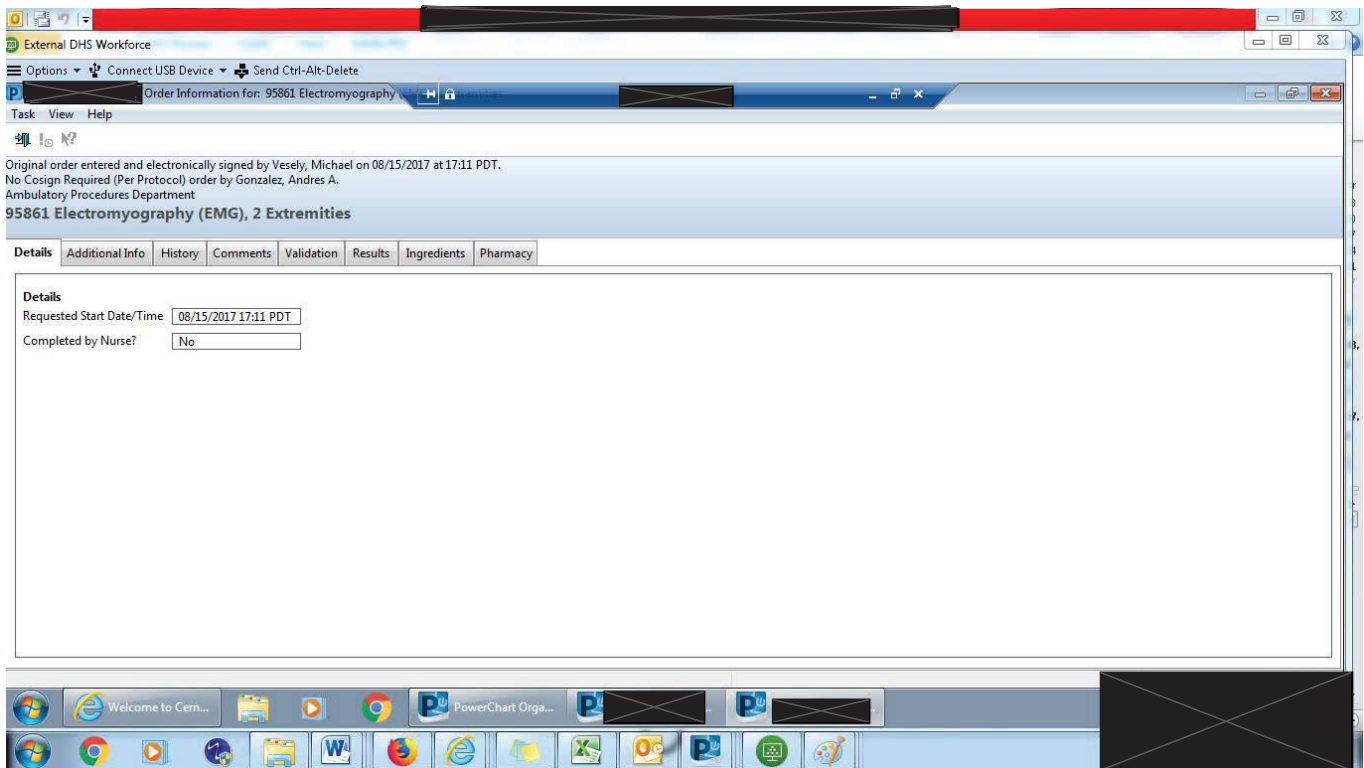
Order 08/15/2017 17:11 PDT

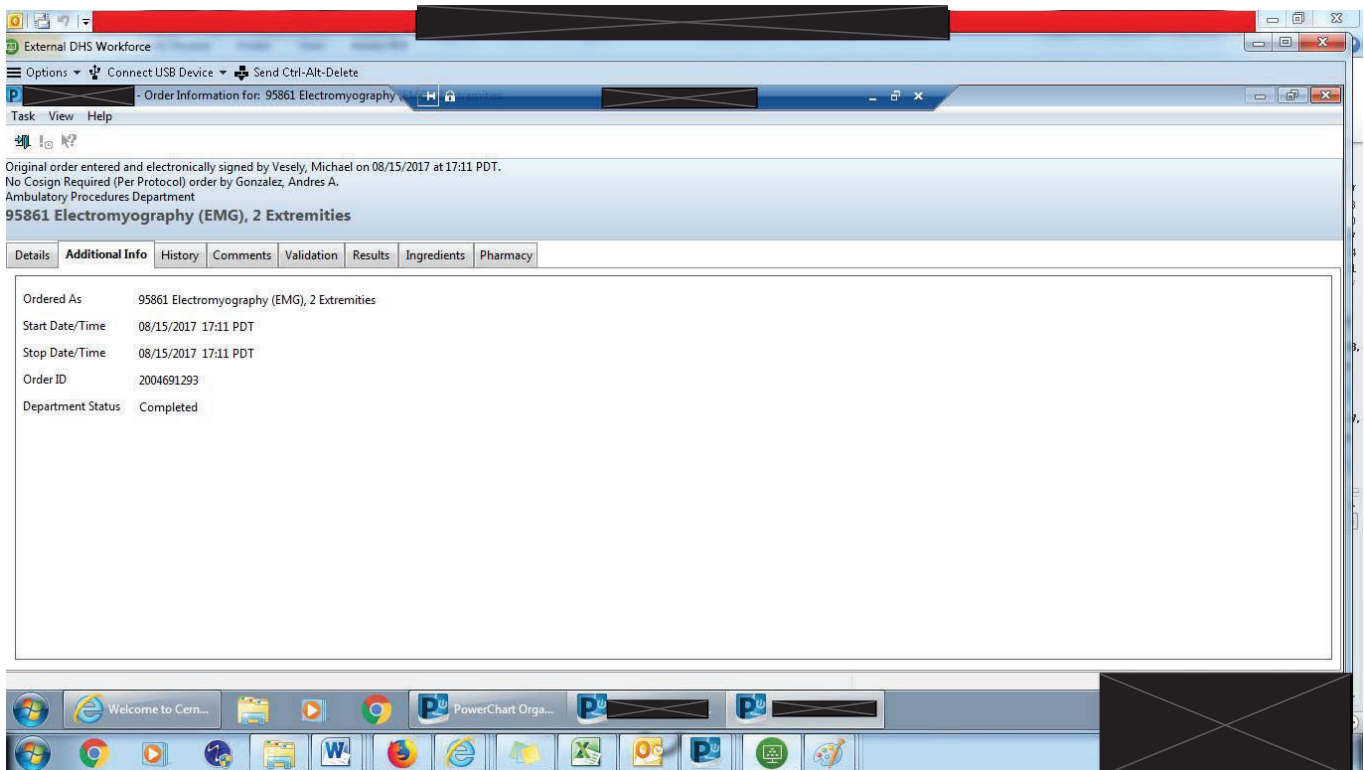
Order 08/15/2017 17:11 PDT
Entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.

Status
Order Status
Department Status

Details
Requested Start Date/Time
Completed by Nurse?

Windows taskbar: Welcome to Cern..., PowerChart Orga..., and various application icons.





External DHS Workforce

Options ▾ Connect USB Device ▾ Send Ctrl-Alt-Delete

Order Information for: 95861 Electromyography

Task View Options Help

Original order entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.
Ambulatory Procedures Department

95861 Electromyography (EMG), 2 Extremities

Details Additional Info **History** Comments Validation Results Ingredients Pharmacy

Order 08/15/2017 17:11 PDT

Order 08/15/2017 17:11 PDT
Entered and electronically signed by Vesely, Michael on 08/15/2017 at 17:11 PDT.
No Cosign Required (Per Protocol) order by Gonzalez, Andres A.

Status

Order Status	<input type="text" value="Completed"/>
Department Status	<input type="text" value="Completed"/>

Details

Requested Start Date/Time	<input type="text" value="08/15/2017 17:11 PDT"/>
Completed by Nurse?	<input type="text" value="No"/>

Intraoperative Note

* Final Report *

2 AG
7/15/17

*** Final Report ***

Procedure Date: 8/15/2017

Study #: LAC 17-341

Referring Physician: Mehta, M.D.

Technician: NN/MV

OR#: 20

Patient History: 64-year-old man with over a year of difficulty with using hands, paresthesias in hands, difficulty walking due to imbalance. Has been non-ambulatory for 6 months

Surgical Procedure: C5-C7 ACDF

MONITORING MODALITIES:

SSEPs (somatosensory evoked potentials), TcMEPs (transcranial motor evoked potentials) and free run EMG.

RESULTS:

During the procedure the aforementioned modalities were continuously monitored.

The surgeon was informed at baseline that the patient's potentials amplitudes were adequate for monitoring bilaterally. During discectomy the bilateral hands and feet motor evoked potentials and global sensory evoked potentials were lost. A minimal recovery of responses was seen during closing. 7.25 hours were spent monitoring, and the surgeons were kept informed of the monitoring status and any significant changes.

IMPRESSION:

Somatosensory evoked potentials and Transcranial Motor evoked potentials were continuously monitored during surgery. Bilateral hand and feet motor evoked potentials and global sensory evoked potentials were lost during discectomy with minimal recovery at closing.

Please see comment.

COMMENT: The changes seen in the (upper and lower extremity somatosensory and motor evoked potentials during discectomy suggest that an interruption of this pathway occurred. Clinical correlation is strongly advised.

Further monitoring data is available by contacting the Intraoperative Neurophysiological Monitoring department

Signature Line

Electronically Signed on 08/15/17 17:09 PDT

Vesely, Michael



Operative Report
* Final Report *

*** Final Report ***

Operative Report (Verified)

REPORT OF OPERATION

DEPARTMENT: NEUROLOGICAL SURGERY-NS DATE OF OPERATION: August 15, 2017

ATTENDING SURGEON: Vivek A. Mehta, MD

DICTATED BY: Vivek A. Mehta, MD

OPERATING SURGEON: Vivek A. Mehta, MD

ASSISTANT(S): Justin C. Lee, MD

PREOPERATIVE DIAGNOSIS: Cervical stenosis with myelopathy.

POSTOPERATIVE DIAGNOSIS: Cervical stenosis with myelopathy.

PROCEDURE PERFORMED: C5-6 anterior cervical discectomy and fusion and C3 through 6 laminectomy and posterior spinal fusion and partial C7 laminectomy.

ANESTHESIA: General endotracheal intubation.

COMPLICATIONS: Drop in neurophysiologic monitoring during the anterior portion of the case requiring an urgent posterior decompression and fusion.

MONITORING: Neurophysiologic monitoring with SSEP and MEP and EMG.

IMPLANTS USED: Biomet anterior cervical plating and posterior cervical lateral mass screws from C3-C6 and 2 lordotic rods and a crosslink.

INDICATIONS FOR PROCEDURE: This is a 64-year-old male who presented to the emergency room with worsening bilateral upper and lower extremity weakness, loss of dexterity and decreased sensation. Imaging demonstrated congenital cervical stenosis with severe disc degeneration at C5-6 and C6-7 with severe cord compression and cord signal change at these levels. He was offered a staged anterior, followed by posterior approach. The risks, benefits, and alternatives associated with the surgery were discussed in detail with the patient. The risks include, but were not limited to infection, bleeding, nerve root or spinal cord injury, paralysis, loss of bowel bladder function, CSF leak, postoperative back pain, instability, need for reoperation. Medical complications include heart attack, stroke, DVT, PE, pneumonia and possibly death. Prior to surgery, I explained to him that we would 1st attempt the anterior approach and could see how his symptoms respond after surgery, but I thought it was likely that he would need a posterior approach. He was agreeable to the plan of staged procedure to achieve adequate decompression of his severe stenosis.

OPERATIVE PROCEDURE: The patient was brought back to the operating room. He underwent general endotracheal intubation with induction of general anesthesia without any complications. Appropriate intravenous lines were placed. After the induction of

Operative Report
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general anesthesia, we notified Anesthesia to maintain mean arterial pressures greater than 85 throughout the case. He was then left in the prone position. His neck was slightly extended. The anterior cervical spine was then shaved, prepped, draped in the usual sterile fashion. Fluoroscopy was brought in to confirm the approximate C5-6 level. This area was then shaved, prepped, draped in the usual sterile fashion. We then performed a time-out to confirm correct patient, procedure, site, and side. A dilute solution of lidocaine with epinephrine was injected into the subcutaneous tissue in a horizontal crease at the approximate levels. We then opened the skin with a 10 blade and used Bovie cautery to open down to the platysma. We performed a subplatysmal dissection. We opened the platysma sharply and performed a subplatysmal dissection. We found the medial border of the sternocleidomastoid and dissected down until we were over the prevertebral fascia. Handheld retractors were then placed, and the longus colli were divided in the midline using Bovie cautery and elevated laterally off the spine. Trimline cervical retractors were then placed, and a spinal needle was placed at the approximate C5-6 level. Again, fluoroscopy was used to confirm that we were at the appropriate level. We then opened this disc space using an 11 blade and performed discectomy using a combination of curets and Kerrison. Prior to the discectomy, we noticed a drop in the bilateral lower extremity motors and sensory in bilateral upper extremity, and at this point, mean arterial pressure was driven above 95, and the head was removed from slight extension. We completed the discectomy and found adequate decompression of the thecal sac after removal of the posterior longitudinal ligament. At this time, motor evoked potentials had some mild recovery, but they were still significantly decreased from baseline. At this point, the decision was made to urgently perform a posterior decompression and fusion, given the multiple levels of cervical stenosis. We considered performing an anterior cervical discectomy and fusion at the level below and also considered taking him to MRI to determine which levels were most stenotic. However, given the acute change in findings on neuromonitoring, I felt that his best chance of making a neurologic recovery was a rapid decompression of his central canal. We attempted to reach his family, but were unable to do so, and so emergency 2 physician consent was obtained to proceed with the posterior stage. Of note, I had previously discussed this with the patient, but we had not obtained formal documented consent for this. At this time, an anterior cervical discectomy plate was then placed, and 4 screws were applied. The wound was copiously irrigated, and a 7 flat JP was placed in the wound and tunneled out. We closed the platysmal layer with 2-0 Vicryl pops, the deep dermal layer with 3-0 Vicryl, and the skin with a subcutaneous Biosyn. The dressing was applied. He was then placed in Mayfield head clamp and was turned prone onto a regular OR table with gel rolls. The posterior cervical region was then shaved, prepped, draped in the usual sterile fashion. Again, a time-out was performed indicating that this was an urgent/emergent procedure performed under a 2 physician emergency consent, due to the lack of available family members and due to the impending neurologic injury and need for decompression to prevent neurologic dysfunction and restore any remaining function. The skin was opened in the midline with a 10 blade, and bipolar cautery was used to dissect subperiosteally to expose the lateral masses of the C3 through 6 level, making sure not to violate the C2-3 joint or the C6-7 joint. There was some exposure of the C6-7 joint on the left side. Fluoroscopy was brought in to confirm the appropriate levels. At this point, lateral mass screw starting points were drilled from C3-6. We then performed a wide laminectomy at these levels and obtained a good decompression of the thecal sac. We extended the laminectomy inferiorly to the superior part of the C7 lamina. After we had achieved adequate decompression, we placed lateral mass screws from C3-C6 and connected these with a rod and set screw caps. A crosslink was then placed. The wound was copiously irrigated. The facet joints and lateral masses were then decorticated. Autograft was then harvested from the lamina and placed over the area of the exposed bone. Meticulous hemostasis was then achieved. We then placed a 10 flat JP above the thecal sac and closed the fascia with 0 Vicryl pops, the deep dermal with 2-0 Vicryl pops, and the drain was secured in place using a 3-0 nylon. Following the posterior decompression, there was recovery of the motor and sensory evoked potentials. All sponge and needle counts were correct at the end of the procedure. The patient was returned to the supine position and left intubated, given the concern for high cervical cord level and taken back to the intensive care unit.

Dictated By: Vivek A. Mehta, MD

Vivek A. Mehta, MD

VAM/MODL

JOB #: 967387/753730931

XXXXXX

Printed: 09/20/21 15:30:00
 09/20/21 15:30:00

Operative Report
* Final Report *



Signature Line

Electronically Signed on 08/23/17 08:38 PDT

Mehta, Vivek A., MD

Electronically Signed on 08/23/17 08:38 PDT

Mehta, Vivek A., MD



Inpatient Progress Note - Generic

100726827

Inpatient Progress Note (Verified)

DATE OF SERVICE:

ATTENDING PHYSICIAN: Vivek A. Mehta, MD

RESIDENT PHYSICIAN: Vivek A. Mehta, MD

HISTORY OF PRESENT ILLNESS: This is a 64-year-old male, who was seen in our clinic last week with severe cervical stenosis and cervical myelopathy, which had progressed to the point where he was no longer ambulatory. His previous attempts at surgery had been delayed due to the fact that he had not cleared Anesthesia for pulmonary issues. He presented to the LA County USC Emergency Department on Sunday for worsening weakness, and we admitted him. We obtained a Pulmonary consult, and he was cleared for the operating room. I discussed with him that due to his severe cervical stenosis, that this was a high risk surgery and that the goals would be to prevent worsening and stabilize his symptoms. I explained to him that we would attempt an anterior approach, and he was consented for a C5-6 and C6-7 anterior cervical discectomy and fusion. Prior to the surgery, I explained to him that we may need to also stage this and do a posterior decompression and fusion, based on the degree of decompression we achieved anteriorly. However, prior to going to the operating room, he was not consented for a posterior approach. I will dictate a separate operative note for details of the intraoperative events. Briefly, after exposure of the spine and prior to the discectomy, the patient's motor evoked potentials were found to have decreased significantly in the bilateral lower extremities and hands. At this time, we elevated the mean arterial pressures to greater than 95, and he received 20 mg of Decadron. We completed the discectomy for concern that there was ongoing compression at C5-6 and also removed the Caspar pin retractors and took his head out of extension. He had slow return of his motors and sensories. However, they were not a baseline by the completion of the C5-6 discectomy. At this point, I made the decision to urgently perform a posterior decompression and fusion, due to the concern that other levels of the cervical stenosis might be contributing to his decline on neuromonitoring. We attempted to reach family and were unsuccessful. Therefore, a 2 physician emergency consent was obtained due to the immediate and grave risk of prolonged neurologic disability. The posterior approach was performed uneventfully with a decompression and fusion from C3-C6 and a partial laminectomy at C7. Following the posterior decompression, he did start to regain some of his motor evoked and sensory potentials in his bilateral lower extremities that were lost. In the operating room immediately after surgery, he was found to be wiggling his toes and moving his arms and legs. We will keep him intubated in the ICU for airway protection, given the high cervical level of his stenosis. I was able to reach his mother Delores by phone at approximately 6 o'clock p.m. and apprised her of all of the events and that we had to urgently performed the posterior approach without obtaining formal informed consent from him or a family member. I further explained that I had spoken with him about a posterior approach, but that we did not consent him for this for today. I told her that we will keep her updated about his status on a daily basis.

Dictated By: Vivek A. Mehta, MD

Vivek A. Mehta, MD

VAM/MODL

JOB #: 164995/753601225

in OR Intraoperative Record
 nal Report *

*** Final Report ***

: Main OR Intraop Nursing Record (Verified)

SC Main OR Intraop Nursing Record Summary

Primary Physician: Mehta, Vivek A.
 Case Number: USCOR-2017-11831
 Normalized Date/Time: [REDACTED]
 Name: [REDACTED]
 O.B./Sex: 01/12/1988
 rd Rec #: 100726827
 Physician: Buckingham, Clare Sandra
 nancial #: 1008835114
 Type: I
 rom/Bed: 116/A
 mit/Disch: 08/13/17 18:55:00 -
 Institution:

afety Checklist 2) Time Out - USC MOR

Pre-Care Text:
 A.10 Confirms patient identity A.20 Verifies operative procedure, surgical site, and laterality A.20.1 Verifies
 consent for planned procedure A.30 Verifies allergies

	Entry 1	Comments	
nal Time Out was nducted based on e DHS Final Time t	Yes		N/A
hecklist/Standards: 1 Time Out rticipants ceased tivity, confirmed tient, site, cedure, and nsents	Yes		N/A
me Out Members	Mehta, Vivek A., Lee, Justine C, Tobin, Joshua M., Lee, Christopher Gary, Dimla, Romerson Del Rosario, Kim RN, John, Apikyan, Zhanna, Fernandez MS, Luis	Time Out Time	08/15/17 10:31:00

Post-Care Text:
 E.30 Evaluates verification process for correct patient, site, side, and level surgery

In OR Intraoperative Record
 Final Report *

	CERVCL BELW C2 EA ADDL NTRSPC	FORAMOTOMY 1 SEGMENT CERVICAL Spine-cervical C-6 ANB C-7
Modifiers		
Additional	C5-6/C6-7 ACDF	
Procedure Detail		
Primary Procedure	Yes	No
Attending Surgeon	Mehta, Vivek A.	Mehta, Vivek A.
Record		
Start	08/15/17 10:32:00	08/15/17 15:10:00
Stop	08/15/17 18:15:00	08/15/17 18:15:00
Anesthesia Type	General	General
Surgical Service	Neurosurgery (SN)	Neurosurgery (SN)
Room Class	1-Clean	1-Clean

Post-Care Text:

0.730 The patient's care is consistent with the individualized perioperative plan of care

Case Times - USC MOR

Entry 1

Patient			
Patient In Room Time	08/15/17 09:02:00	Patient Out Room Time	08/15/17 18:26:00
Use			
Procedure Start Time	08/15/17 10:32:00	Procedure Stop Time	08/15/17 18:15:00

Case Attendance - USC MOR

Entry 1

Use Attendee	Mehta, Vivek A.
Role Performed	Surgeon - Attending
Time In	08/15/17 09:02:00
Time Out	08/15/17 18:26:00
Procedure(s)	Fusion Spine Cervical Anterior and Disc, Fusion Spine Cervical Posterior(Spine-cervical))

Entry 2

Lee, Justine C
Surgical Resident
08/15/17 09:02:00
08/15/17 18:26:00
Fusion Spine Cervical
Anterior and Disc,
Fusion Spine Cervical
Posterior(Spine-cervical)
)

Entry 3

Tobin, Joshua M.
Anesthesiologist -
Attending
08/15/17 09:01:00
08/15/17 18:26:00
Fusion Spine Cervical
Anterior and Disc,
Fusion Spine Cervical
Posterior(Spine-cervical)
)

Entry 4

Use Attendee	Lee, Christopher Gary
Role Performed	Anesthesia Resident
Time In	08/15/17 09:01:00
Time Out	08/15/17 18:26:00
Procedure(s)	Fusion Spine Cervical Anterior and Disc, Fusion Spine Cervical Posterior(Spine-cervical))

Entry 5

Dimla, Romerson Del
Rosario
Anesthesia Resident
08/15/17 09:01:00
08/15/17 18:26:00
Fusion Spine Cervical
Anterior and Disc,
Fusion Spine Cervical
Posterior(Spine-cervical)
)

Entry 6

Kim RN, John
Circulator - Primary
08/15/17 09:02:00
08/15/17 15:20:00
Fusion Spine Cervical
Anterior and Disc,
Fusion Spine Cervical
Posterior(Spine-cervical)
)

in OR Intraoperative Record
 nal Report *

	Entry 10	Entry 11	Entry 12
use Attendee	Mastandrea, Michelle	Richardson RN, Latanya	Thompson RN, Jason
le Performed	Scrub - Relief	Circulator - Relief	Circulator - Team 1
me In	08/15/17 12:45:00	08/15/17 13:45:00	08/15/17 14:25:00
me Out	08/15/17 13:30:00	08/15/17 14:45:00	08/15/17 14:30:00
ocedure(s)	Fusion Spine Cervical Anterior and Disce, Fusion Spine Cervical Posterior(Spine-cervical)	Fusion Spine Cervical Anterior and Disce, Fusion Spine Cervical Posterior(Spine-cervical)	Fusion Spine Cervical Anterior and Disce, Fusion Spine Cervical Posterior(Spine-cervical)
use Attendee	Contreras, Zoila	Tomson RN, John	Thompson RN, Jason
le Performed	Scrub - Relief	Circulator - Relief	Circulator - Relief
me In	08/15/17 15:30:00	08/15/17 15:10:00	08/15/17 16:20:00
me Out	08/15/17 18:26:00	08/15/17 18:26:00	08/15/17 16:55:00
ocedure(s)	Fusion Spine Cervical Anterior and Disce, Fusion Spine Cervical Posterior(Spine-cervical)	Fusion Spine Cervical Anterior and Disce, Fusion Spine Cervical Posterior(Spine-cervical)	Fusion Spine Cervical Anterior and Disce, Fusion Spine Cervical Posterior(Spine-cervical)

neral Comments:
 STAN RULAND (REP FROM BIO MED)

atheter, Drains, Tub - USC MOR

se-Care Text:
 A.310 Identifies factors associated with an increased risk for hemorrhage or fluid and electrolyte imbalance
 Im.250 Administers care to invasive device sites

	Entry 1	Entry 2
vice Description	TRAY CATHETERIZATION SURESTEP BARDEX COMPLETE CARE STATLOCK BACTI-GUARD NATURAL RUBBER OD16 FR FOLEY DRAINAGE BAG INFECTION CONTROL STERILE LATEX DISPOSABLE	DRAIN INCISION 20CMX7MM SILICONE FULL PERFORATION HUBLESS RADIOPAQUE STERILE
vice Type	Indwelling	Bulb Reservoir
ocation	Bladder	Neck
lloon Inflation	10 ML	
ount		
ocation Detail	Internal	Left
esent on Arrival?	No	No
serted By	Kim RN, John	Lee, Justine C
'd at End of Case?	Yes	No
'd By	Kim RN, John	
ainage Details		
rainage?	Yes	Yes
ount	Measured in Milliliters	Measured in Milliliters

In OR Intraoperative Record
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Counts Verification - USC MOR

Pre-Care Text:

A.20 Verifies operative procedure, surgical site, and laterality A.20.2 Assesses the risk for unintended retained foreign body Im.20 Performs required counts

Entry 1

Procedure	Fusion Spine Cervical Anterior and Disce, Fusion Spine Cervical Posterior(Spine-cervical)		
Initial Counts Performed By Surgical Count Closing Counts Performed By Final Counts Final Count Status	Kim RN, John, Apikyan, Zhanna	Items included in the Initial Count	Sponges, Sharps
Closing Counts Performed By Final Counts Final Count Status	Kim RN, John, Apikyan, Zhanna	Items included in the Closing Count	Sponges, Sharps
Final Count Status	Correct	Final Counts Performed By	Contreras, Zoila, Tomson RN, John
Items Included in Final Count	Sponges, Sharps		
Outcome Met (0.20)	Yes		

Post-Care Text:

E.50 Evaluates results of the surgical count 0.20 Patient is free from unintended retained foreign objects

Patient Positioning - USC MOR

Pre-Care Text:

A.240 Assesses baseline skin condition A.280 Identifies baseline musculoskeletal status A.280.1 Identifies physical alterations that require additional precautions for procedure-specific positioning A.510.8 Maintains patient's dignity and privacy Im.120 Implements protective measures to prevent skin/tissue injury due to mechanical sources Im.40 Positions the patient Im.80 Applies safety devices

Entry 1

Procedure	Fusion Spine Cervical Anterior and Disce, Fusion Spine Cervical Posterior(Spine-cervical)	Body Position	Supine
Left Arm Position	Tucked and padded at side	Right Arm Position	Tucked and padded at side
Left Leg Position	Extended	Right Leg Position	Extended
Feet Uncrossed?	Yes	Pressure Points Checked	Yes
Positioning Device	Elbow Protector, Board - Arm, Elbow Protector, Head Protector, Table - Standard, Strap - Safety	Positioned By	Lee, Justine C, Kim RN, John, Dimla, Romerson Del Rosario
Safety Strap Applied?	Yes	Location	Abdomen
Outcome Met (0.80)	Yes		

In OR Intraoperative Record
 Final Report *

General Comments:

HEAD, BLE, BUE ALIGNED, IN POSITION, WARM TO TOUCH. BILATERAL RADIAL PULSE 3, BILATERAL PEDAL PULSE 3.

Skin Prep - USC MOR

Pre-Care Text:

A.30 Verifies allergies A.20 Verifies procedure, surgical site, and laterality A.510.8 Maintains patient's dignity and privacy Im.270 Performs Skin Preparation Im.270.1 Implements protective measures to prevent skin and tissue injury due to chemical sources A.300.1 Protects from cross-contamination

Entry 1

Skin Prep			
Prep Agents (Im.270)	Iodine Povacrylex and Isopropyl Alcohol	Prep By	Mehta, Vivek A.
Prep Area (Im.270)	Neck, Chin	Prep Area Details	Right
Skin Prep Agent Dry	Yes		
Without Pooling			
Hair Removal			
Hair Removal Methods	Clipper	Hair Removal By	Lee, Justine C
Hair Removal	08/15/17 09:30:00	Hair Removal Site	Face
Date/Time			
Hair Removal Site	Bilateral		
Details			
Outcome Met (O.100)	Yes		

Post-Care Text:

O.10 Evaluates for signs and symptoms of physical injury to skin and tissue O.100 Patient is free from signs and symptoms of chemical injury

General Case Data - USC MOR

Pre-Care Text:

A.350.1 Classifies surgical wound

Entry 1

Case Information			
OR	USC OR 20	Case Level	5
Found Class	1-Clean	Specialty	Neurosurgery (SN)
SA Class	2		
Preop Diagnosis	Spinal stenosis, cervical region		

Post-Care Text:

O.760 Patient receives consistent and comparable care regardless of the setting

Implant Log - USC MOR

Pre-Care Text:

A.20 Verifies operative procedure, surgical site, and laterality A.20.1 Verifies consent for planned procedure Im.350 Records implants inserted during the operative or invasive procedure

Entry 1

Entry 2

Entry 3

Implant/Explant	Entry 1	Entry 2	Entry 3
Implant	Implant	Implant	Implant
Identification			
Description	SPACER ALLOGRAFT 12.5X15X6MM 7D LORDOTIC	SCREW BONE L12 MM OD4 MM SPINE FIX	SCREW BONE MAXAN L12 MM OD4 MM SPINE VARIABLE

in OR Intraoperative Record
nal Report *

Select Left or Right when applicable: Quantity Outcome Met (0.30)	Right 1 Yes	2 Yes	2 Yes
	Entry 4	Entry 5	Entry 6
Implant/Explant Implant Identification Description	Implant PLATE BONE L11MM LEVEL 1	Implant SCREW BONE VIRAGE L12 MM OD3.5 MM SPINE POLYAXIAL NONSTERILE	Implant SCREW BONE VIRAGE L10 MM OD3.5 MM SPINE POLYAXIAL NONSTERILE
Size Serial Number Lot Number Manufacturer Catalog # Expiration Date Age Data Implant Site Select Left or Right when applicable: Quantity Outcome Met (0.30)	11MM PLATE BIOMET 14-522111 Spine-cervical 1 Yes	 ZIMMER 07.01702.005 Back 4 Yes	 ZIMMER 07.01702.003 Back 4 Yes
	Entry 7	Entry 8	Entry 9
Implant/Explant Implant Identification Description	Implant LID STERILIZATION CLOSURE TOP VIRAGE SCREW NONSTERILE DISPOSABLE	Implant 07.01710.005 60MM X 3.5MM RO	Implant CONNECTOR ROD VIRAGE TITANIUM L30 MM SPINE ADJUSTABLE HEAD TO HEAD TRANSVERSE OCT FIXATION SYSTEM
Size Serial Number Lot Number Manufacturer Catalog # Expiration Date Age Data Implant Site Select Left or Right when applicable: Quantity Outcome Met (0.30)	 ZIMMER 07.01728.001 Back 6 Yes	 ZIMMER Back 2 Yes	 ZIMMER 07.01717.002 Back 1 Yes

In OR Intraoperative Record
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Lot Number		
Manufacturer	ZIMMER	ZIMMER
Catalog #	07.01719.001	07.01720.001
Expiration Date		
Implant Site	Back	Back
Select Left or Right when applicable:		
Quantity	2	2
Outcome Met (O.30)	Yes	Yes

Post-Care Text:

E.30 Evaluates verification process for correct patient, site, side and level surgery O.30 Patient's procedure is performed on the correct site, side, and level

Medication Administration - USC MOR

Pre-Care Text:

E.10 Evaluates for signs and symptoms of physical injury to skin and tissue O.10 Patient is free from

	Entry 1	Entry 2	Entry 3
Medication Administered	BACITRACIN 50,000 UNITS/1 VIAL INJECTION	THROMBIN TOPICAL 20,000 UNIT/1 VIAL (RECOMB)	LIDOCAINE 1% with EPINEPHRINE 1:100,000 INJ, 20 ML INJ Subcutaneous
Route of Admin	Irrigation	Topical	
Dose	5		
Volume	50000 uIU/mL	4000 units	
Administered By	Lee, Justine C	Lee, Justine C	Lee, Justine C
Outcome Met (O.130)	Yes	Yes	Yes
	Entry 4	Entry 5	Entry 6
Medication Administered	VANCOMYCIN HYDROCHLORIDE 500 MG POWDER VIAL	TOBRAMYCIN POWDER 1.2 GM INJ	BACITRACIN/NEOM/POLYMYXIN OINT 28 GM, 1 APPLY/28 GM OIN
Route of Admin	Topical	Topical	Topical
Dose	1.2 gm	1.2 gm	1 oz
Administered By	Lee, Justine C	Lee, Justine C	Lee, Justine C
Outcome Met (O.130)	Yes	Yes	Yes

Post-Care Text:

E.20 Evaluates response to medications O.130 Patient receives appropriately administered medication(s)

-Ray and Images - USC MOR

Pre-Care Text:

A.240 Assesses baseline skin condition A.240.1 Assesses history of previous radiation exposure Im.110 Implements protective measures to prevent injury due to radiation sources

	Entry 1	X-Ray Type	C-Arm
Site	Spine-cervical		
Outcome Met (O.110)	Yes		

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Equipment Type	WARMER BAIR HUGGER *USC	PUMP, ALP 501 COMPRESSION *USC 28784	TABLE CMAX *USC
Serial Number	14248		C428107047
Settings (if applicable)			
Lead Number (if applicable)			
Site Sterilized			
Comments			
Outcome Met (O.700)	Yes	Yes	Yes

Post-Care Text:
 E.10 Evaluates signs and symptoms of physical injury to skin and tissue O.700 Patient is free from signs and symptoms of injury caused by extraneous objects

Surgical Irrigation - USC MOR

Pre-Care Text:
 A.280 Verifies allergies A.310 Identifies factors associated with an increased risk for hemorrhage or fluid and electrolyte imbalance Im.210 Administers prescribed solutions A.280.1 Implements protective measures to prevent skin or tissue injury due to thermal sources

	Entry 1	Entry 2	Entry 3
Irrigant	Yes		Yes
Irrigant Used:	SOLUTION INTRAVENOUS 0.9% SODIUM CHLORIDE 1 L VIAFLEX LATEX FREE	SOLUTION IRRIGATION WATER 1 L PLASTIC POUR BOTTLE STERILE	SOLUTION INTRAVENOUS 5% DEXTROSE 0.9% SODIUM CHLORIDE 1 L VIAFLEX LATEX FREE 6000 mL 6000 mL
Irrigant Volume In			
Irrigant Volume Out			
Is irrigation			
Indications must be			
Entered in the Med			
Administration			
Segment.			
Outcome Met (O.300)	Yes	Yes	Yes

Post-Care Text:
 E.10 Evaluates for signs and symptoms of physical injury to skin and tissue O.300 Patient is free from signs and symptoms of injury due to thermal sources

Autotomy - USC MOR

Pre-Care Text:
 A.240 Assesses baseline skin condition A.280.1 Identifies baseline musculoskeletal status Im.50 Implements protective measures to prevent injury due to electrical sources Im.60 Uses supplies and equipment within safe parameters Im.80 Applies safety devices

	Entry 1	Entry 2
U Type	Electrosurgical Unit	Electrosurgical Unit
Identification	f8c59745a	F1F18038A
Number		
Accessories Used		
U Settings		
Bipolar Setting	20	
Blend Setting		
Coag Setting	30	30

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rounding Pad	Yes	Yes
eeded?		
rounding Pad Lot	70830168X EXP 04/25/2019	71170297X EXP 05/17/2019
umber		
ithin Expiration	Yes	Yes
ate?		
rounding Pad Site	Thigh	Thigh
rounding Pad Site	Left	Right
etail		
air Removed Under	No	No
rounding Pad		
air Removed Using:		
kin Condition	Intact	Intact
nder Grounding Pad		
erified By	Kim RN, John	Richardson RN, Latanya
oke Evacuation	No	No
vice Used		
oke Evacuation		
ut:		
outcome Met (0.10)	Yes	Yes

st-Care Text:
 E.10 Evaluates for signs and symptoms of physical injury to skin and tissue 0.10 Patient is free from signs and symptoms of injury related to thermal sources

ltures and Specimen - USC MOR

re-Care Text:
 A.20 Verifies operative procedure, surgical site, and laterality Im.320 Manages culture specimen collection
 Im.330 Manages specimen handling and disposition
Entry 1

ltures Ordered	No	Specimens Ordered	Yes
outcome Met (0.40)	Yes		

st-Care Text:
 E.40 Evaluates correct processes have been performed for specimen handling and disposition 0.40 Patient's specimen(s) is managed in the appropriate manner

ressing/Packing - USC MOR

re-Care Text:
 A.350 Assesses susceptibility for infection Im.250 Administers care to invasive devices Im.290 Administer care to wound sites Im.300 Implements aseptic technique
Entry 1 **Entry 2**

in Prep Agent	Yes	Yes
moved Prior to		
ressing?		
ressing Item		
etails		
ressing Item	Steri strips	Antimicrobial patch,
(Im.290)		Occlusive dressing
acking (Im.290)		
ast (Im.290)		
plint (Im.290)		
ase (Im.290)	Liquid Bandage	Transparent

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Pre-Care Text:

A.240 Assesses baseline skin condition Im.120 Implements protective measures to prevent skin or tissue injury due to mechanical sources Im.280.1 Implements protective measures to prevent skin or tissue injury due to thermal sources Im.360 Monitors for signs and symptoms of infection

Entry 1

in Integrity	Not intact	Skin Condition	Tattoo
ndition Location	BUE, BACK	Outcome Met (0.60)	Yes

Post-Care Text:

E.10 Evaluates for signs and symptoms of physical injury to skin and tissue E.270 Evaluate tissue perfusion
 O.60 Patient is free from signs and symptoms of injury caused by extraneous objects

General Comments:

FEET TOENAILS ARE OVERGROWN, GREENISH WITH POSSIBLE FUNGUS GROWTH

Safety Checklist 3) Sign Out - USC MOR

Pre-Care Text:

Im.330 Manages specimen handling and disposition

Entry 1

Nurse verbally confirms with team the name of the operative procedure(s) and correct CPT code	Yes	Nurse verbally confirms with team specimen identity and label	Yes
Nurse verbally confirms with team equipment problems to be addressed	NA	The nurse confirmed with the surgeon and the incision is:	Closed
Are the instrument, sponge, and needle counts correct?	Yes	All team members review key concerns for recovery and management of patient	Yes
Is this case a trauma case?	No	Was this an endoscopic case?	No
Is an implant used in this case?	Yes		

Post-Care Text:

E.800 Ensures continuity of care E.50 Evaluates results of the surgical count

Departure from OR - USC MOR

Entry 1

Transport Time	08/15/17 18:26:00	Patient Handoff Status	Sedated
Transfer Evaluation Assessment	ESU Pad Site Checked, Tubes Drains Chains Secured, Warm Blanket Applied, Pressure Areas Checked, Sterile	Skin Condition	Warm, Dry

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ase Comments
<None>

Finalized By: Tomson RN, John

ocument Signatures
igned By:

Tomson RN, John 08/15/17 18:55